

REQUIREMENTS AND DESCRIPTION

406 831

WING VI

VOLUME 1B

FLOW DIAGRAMS

OPERATIONAL

VANDENBERG AFB

USAF AIR FORCE SYSTEM COMMAND BALLISTIC SYSTEMS DIVISION

D2-30044-1B

CODE IDENT NO. 81205

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	CLASS & DISTR APPROVED BY DDC	2/16/3 (DATE)
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^	Complete revision. Volume 1 divided into Volumes 1A and 1B.	2-15-3	
В	Added pages B, V-1, V-2, V-3, V-4, V-5 & V-6 Revised pages Title, A, i, iv, v, vii, IV-1, IV-2, IV-6, IV-16, IV-17, IV-22	3-5-3	1. poperus
C	Completely Revised to Include Associate Contractors 1.0 & 2.0 Lower Flows. Deleted Section V (VAFB Flows).	5-13-3	111 Langer 5/5/3
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	REVISIONS		
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Λ	Complete revision. Volume 1 divided into Volumes 1A and 1B.	2-15-3	
В	Added pages B, V-1, V-2, V-3, V-4, V-5 & V-6 Revised pages Title, A, i, iv. v. vii, IV-1, IV-2, IV-6, IV-16, IV-17, IV-22	3-5-3	11 properties
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* Partial data; this information will be expanded in logical packages as developed and approved.

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SECT. Intro PAGE 1

A. PURPOSE

The Weapon System Requirements and Description Document presents a detailed functional description of the WS-133B Weapon System in accordance with Task 2.0 of the statement of work, Contract AF04(694)-266. It provides source data for all agencies concerned with the development of equipment elements, facilities criteria, personnel and training requirements, technical manual data, provisioning data and logistics planning.

B. SCOPE

This volume contains the master functional flow diagram (Illustration 1) and the lower level functional flow diagrams developed during the System Requirements Analysis for the Operational Weapon System. This analysis was performed in accordance with AF/BSD Exhibit 62-62, utilizing the base line, defined in Task 2.0 of the Statement of Work, as a point of departure.

The VAFB Category III Test program functional flow diagrams are contained in Volume 1C.

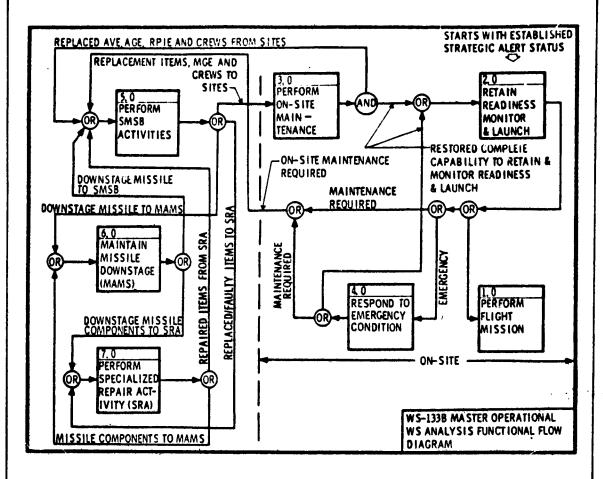
C. FUNCTION NUMBERING

1. Wing VI Operational function numbering is based on the relative level of the flows in descending order.

The first level functions are identified by the master whole number, a decimal point, and the function number, (Example: 1.1 through 1.XX or 4.1 through 4.XXX, etc.). Second level flows contain a second decimal point and the function number, (Example: 5.41.1 through 5.41.1XX, etc.). This system continues through as many levels as necessary to identify the functions.

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WS-133B REQUIREMENTS ANALYSIS MASTER FUNCTIONAL FLOW DIAGRAM - OPERATIONAL



MASTER OPERATIONAL FUNCTIONAL FLOW DIAGRAM

This flow diagram is the top functional flow for the Wing VI operational weapon system. The sequence of events starts with the missiles installed and in Strategic Alert Status. The flow then proceeds through confidence monitor, missile launch, missile flight, malfunction identification, on-site maintenance and transportation, support base maintenance, missile maintenance, and SRA Maintenance.

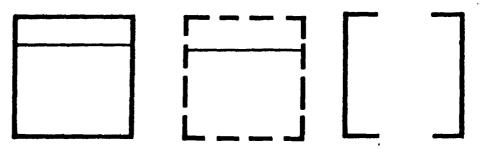
First level and lower level functional flows developed from this master functional flow diagram are presented in Section IV.

ILLUSTRATION I

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D. FUNCTIONAL FLOW DIAGRAMS - MECHANICS AND SYMBOLOGY

Each function is presented in a single box enclosed by a line (for this purpose a function is defined as a discrete identifiable entity causing a particular state or event to occur in the system).

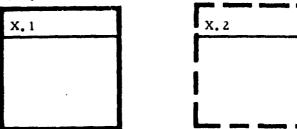


FIRM FUNCTION BLOCK

BLOCK

SOFT FUNCTION REFERENCE FUNCTION BLOCK

Each function is identified by a descriptive title and unique function number on a given flow which appears in the upper portion of the block.



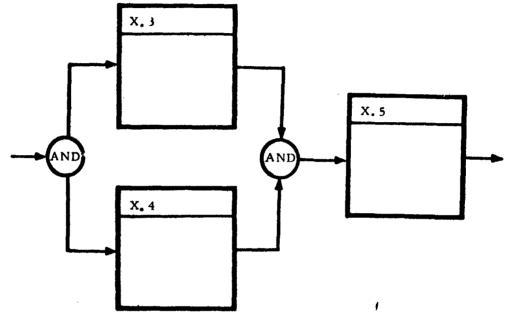
- Each function is either gross or detailed as required by the level of the flow on which it appears. The first level function identified by whole numbers are defined on the master flow diagram. The lower levels are defined by whole numbers followed by decimals. Form B numbers correspond to the lowest level at which a function is defined on a flow diagram.
- The solid lines connecting the function blocks represent direction of flow, and do not represent time lapse or intermediate activity.
- Dotted lines connecting function blocks represent the relationship between non-sequential and specific sequential functions.

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D. (Continued)

6. When two or more functions converge or eminate from a single point, two processes may occur; either an "AND" or an "OR". The process is enclosed in a circle, forming a "gate". The "AND" gate means that all paths of an expansion must be completed. The "OR" gate implies that a decision must be made, since only one path of the expansion need be accomplished to proceed along the flow.



BOTH X. 3 AND X. 4 MUST BE ACCOMPLISHED BEFORE PROCEEDING TO X. 5

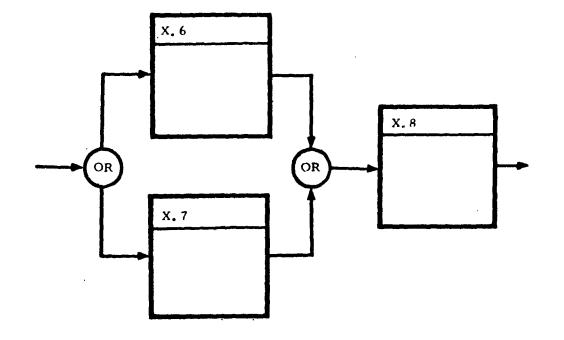
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D. (Continued)



EITHER X.6 OR X.7 IS ACCOMPLISHED BEFORE PROCEEDING TO X.8

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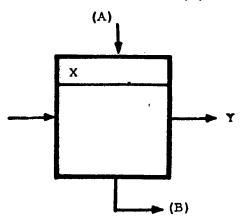
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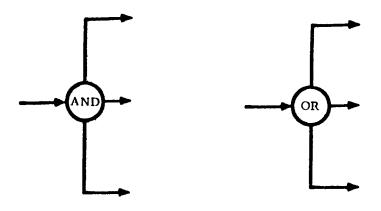
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D. (Continued)

7. Normal flow inputs and outputs are from left to right on the sides of the function blocks. When an input occurs during the performance of a function, it is shown entering the top or bottom of the function block (A). When an output is generated during the performance of a function the output eminates from the top or bottom of the function block (B).



8. When more than two paths converge to or eminate from a gate, the gate symbol is not necessarily repeated.



MULTIPLE GATES

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E. GLOSSARY OF ABBREVIATIONS

AFSC Air Force Speciality Code or Air Force

Systems Command

AGC Aerojet General

AGE Aero-Space Ground Equipment

AMA Air Material Area

AN. Autonetics

ATC Air Training Command

AV Avco

AVE Aero-Space Vehicle Equipment

BOEING The Boeing Company

BSD Ballistic Systems Division

CEP Circle of Equal Probability

CFE Contractor Furnished Equipment

C/O Checkout

DT & TE Depot Tooling and Test Equipment

G&C Guidance and Control

GES Ground Electronics System

GFE Government Furnished Equipment

GFP Government Furnished Property

HPC Hercules Powder Company, Magna, Utah

LCF Launch Control Facility

MAMS Missile Assembly and Maintenance Shops

MCC Mobile Launch Control Center

MGE Maintenance Ground Equipment

MLCC Mobile Launch Control Center

NA Not Applicable

OGE Operational Ground Equipment

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F. (Continued)

PA Penetration Aids

PAS Primary Alert System

PROP Propulsion

RFI Radio Frequency Interference

RPIE Real Property Installed Equipment

R/V Re-entry Vehicle

SAC Strategic Air Commana

SMSB Strategic Missile Support Base

STL Space Technology Laboratories, Inc.

SYL Sylvania

SYL (W) Sylvania (West)

TAPS Trajectory Accuracy Prediction System

TCC Thiokol Checmical Corporation

T-R Transformer - Rectifier

VAFB Vandenberg Air Force Base

W/S Weapon System

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F. VOLUME INDEX

NOTE

All Volumes in the S-133-10 series are identified by a Boeing document number. The base portion of this number is D2-30044-. To obtain a given volume, add the volume number to the base number. (e.g. Volume 3A is Document No. D2-30044-3A).

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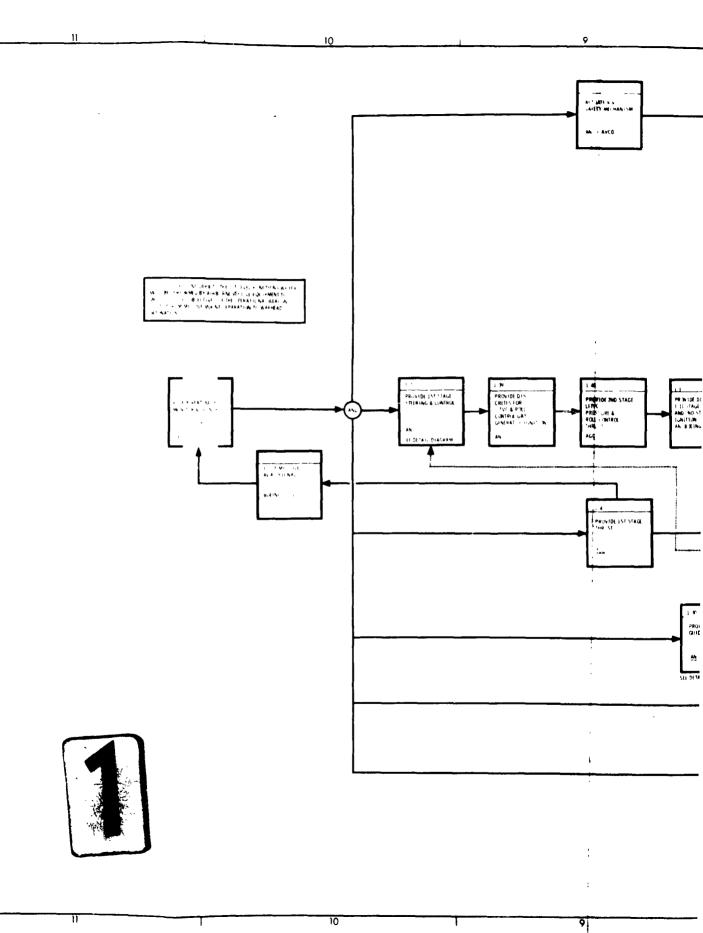
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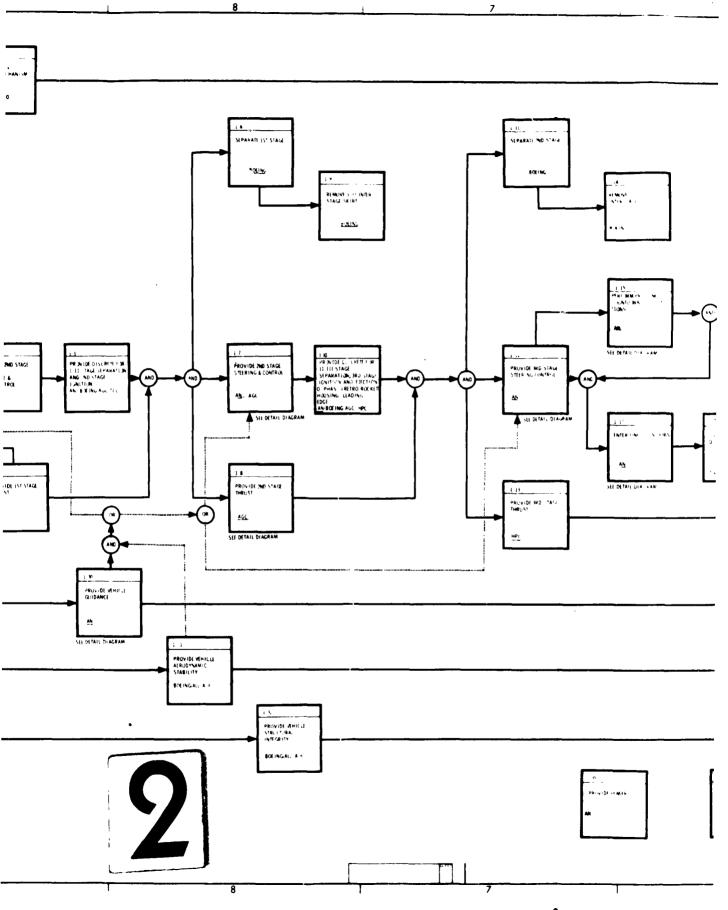
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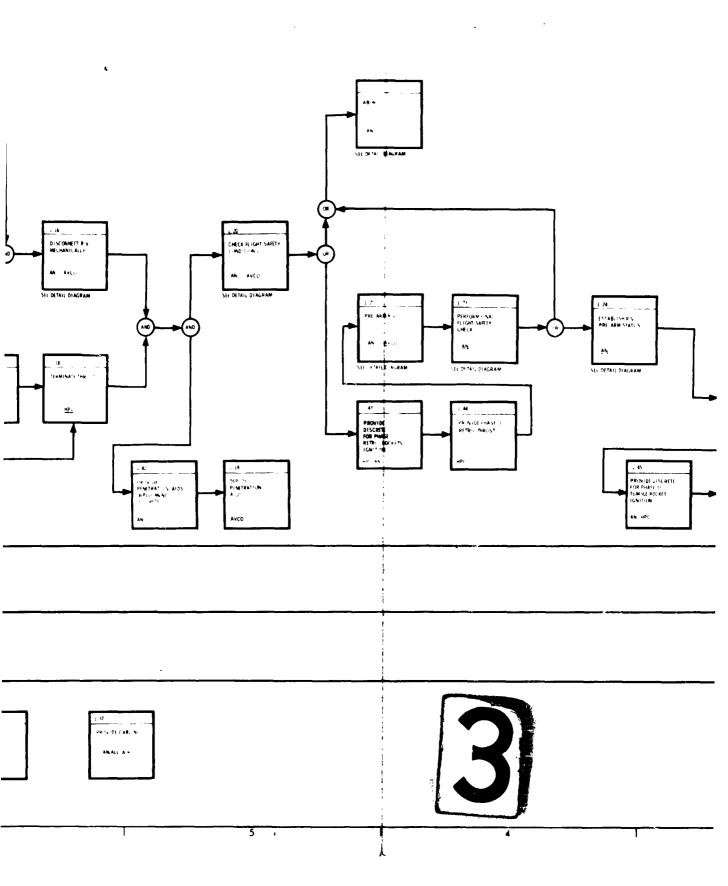
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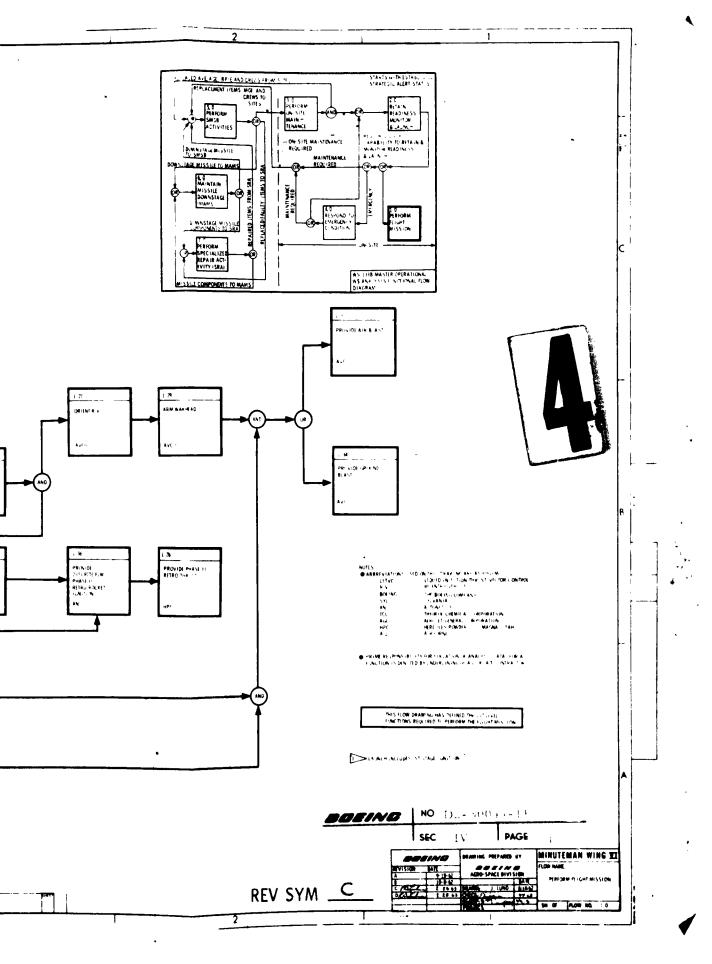
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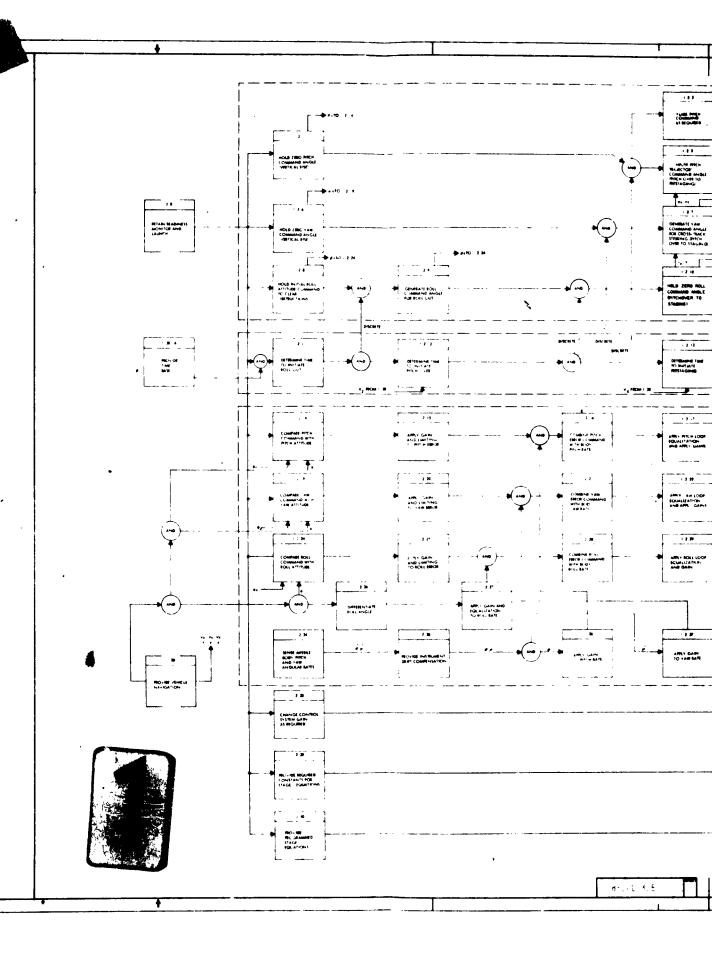
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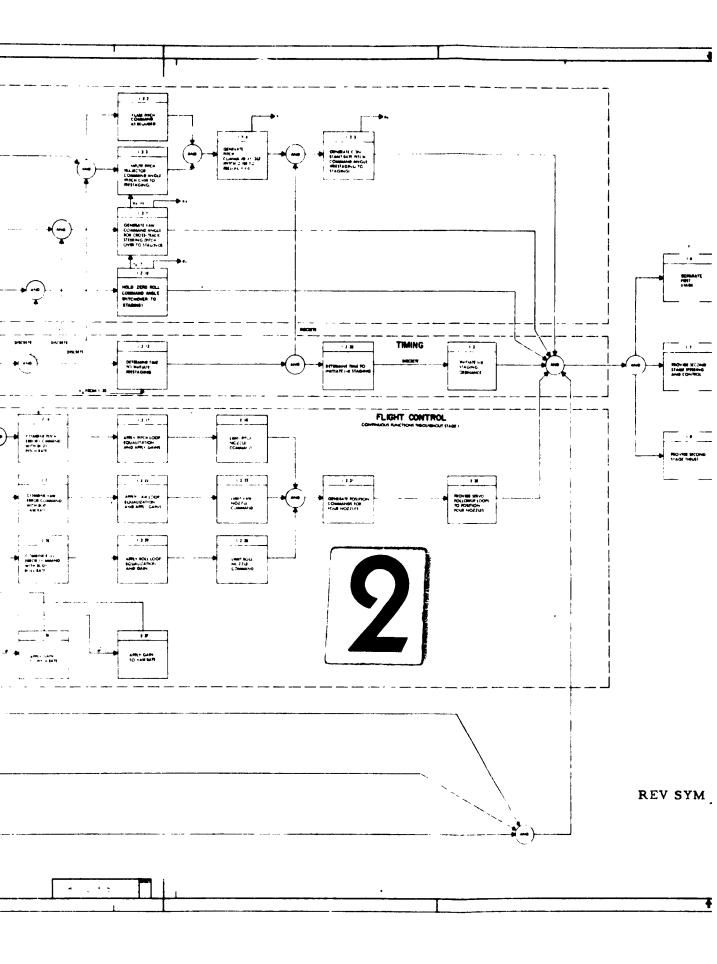


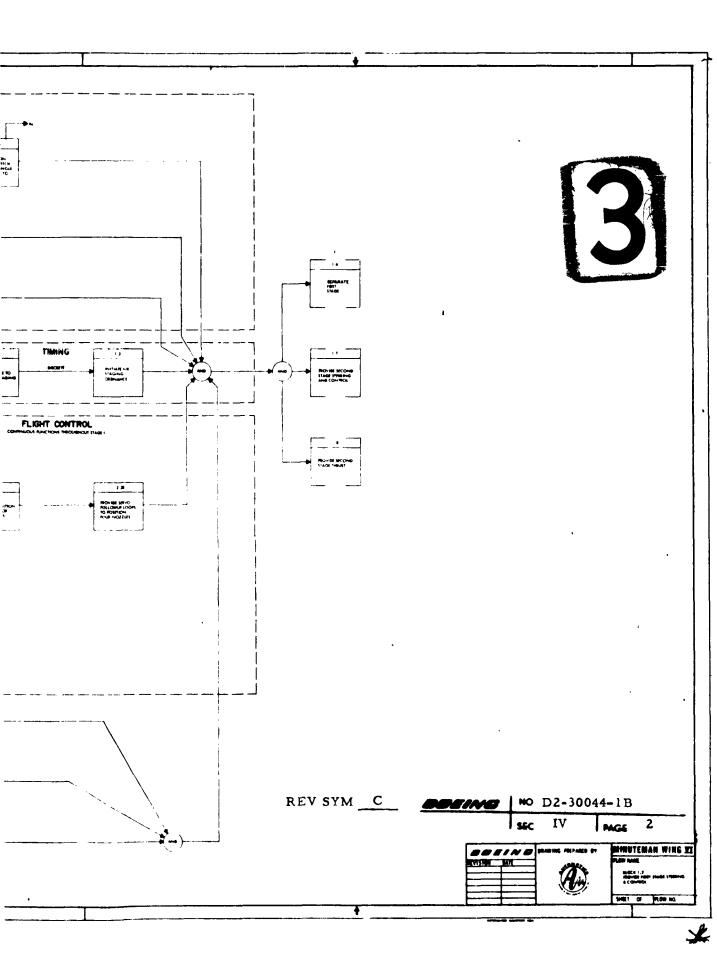


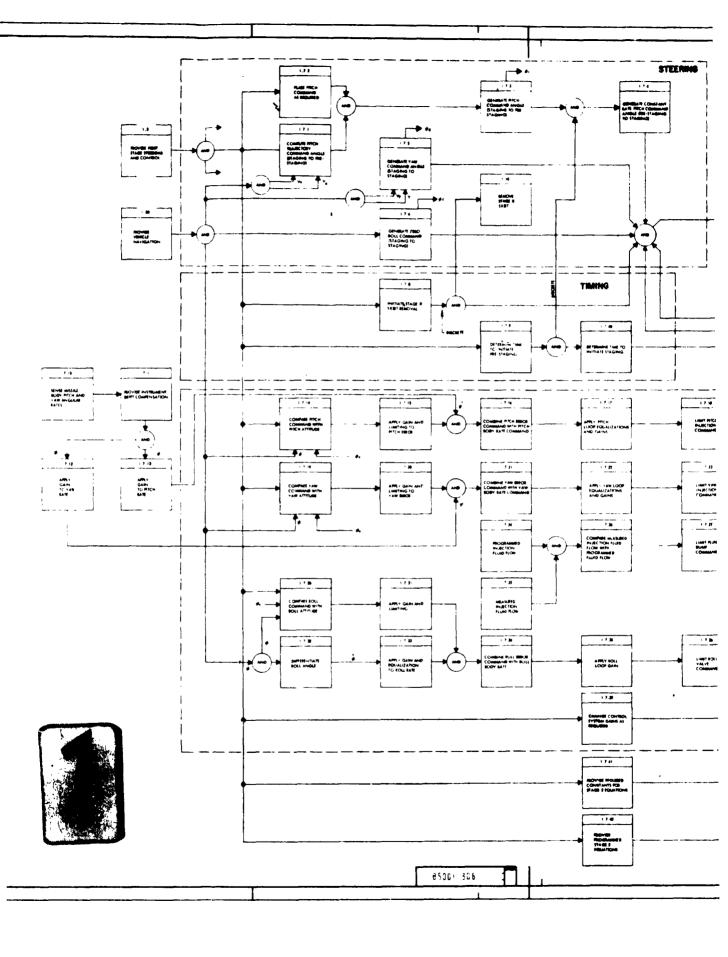


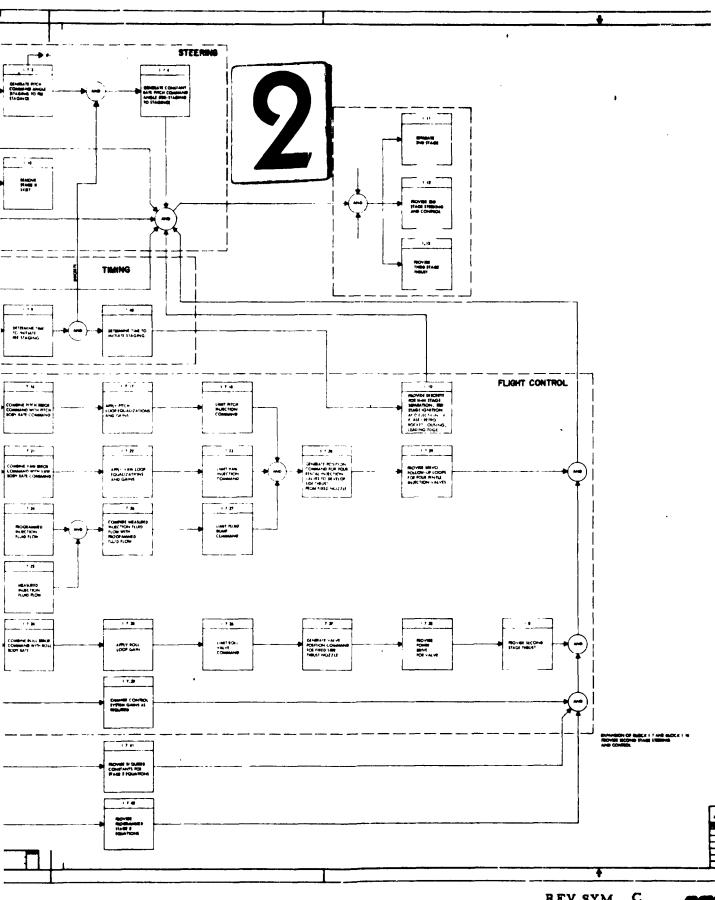


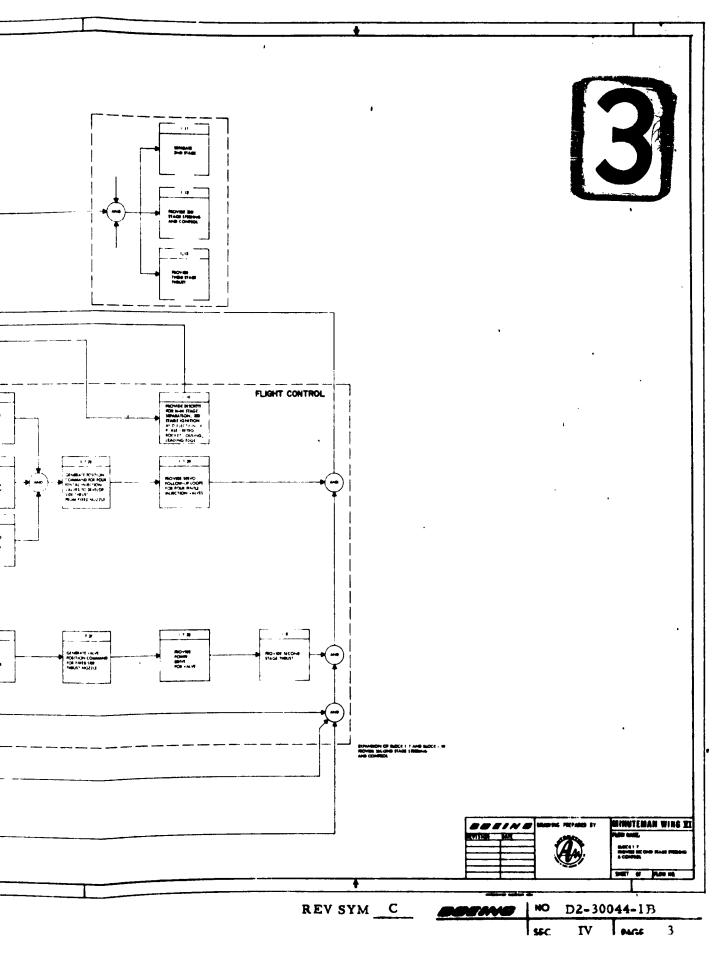


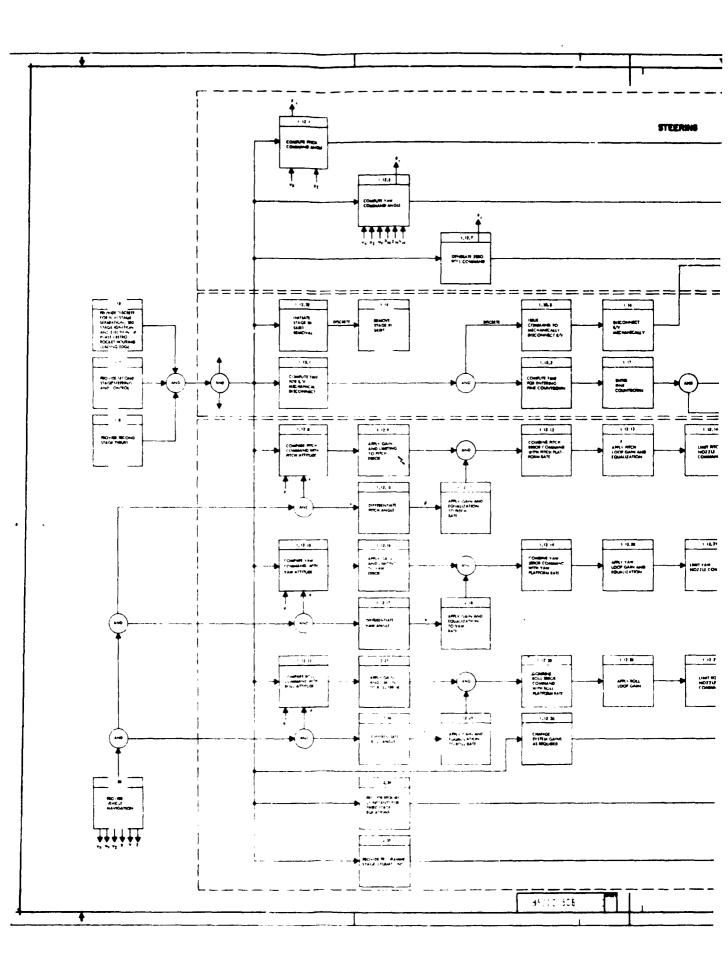


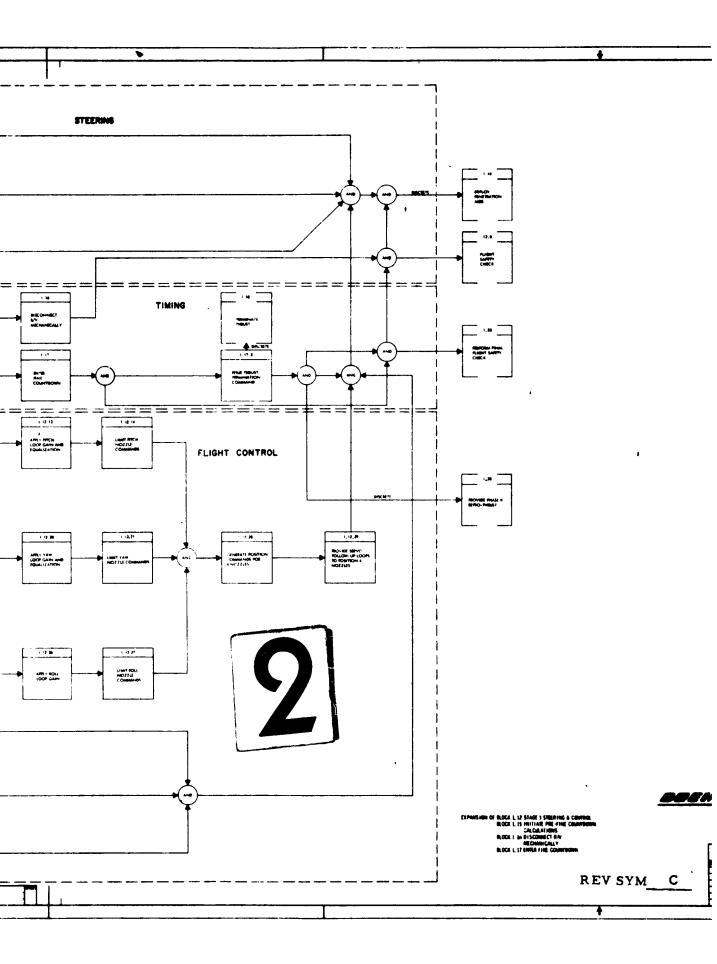


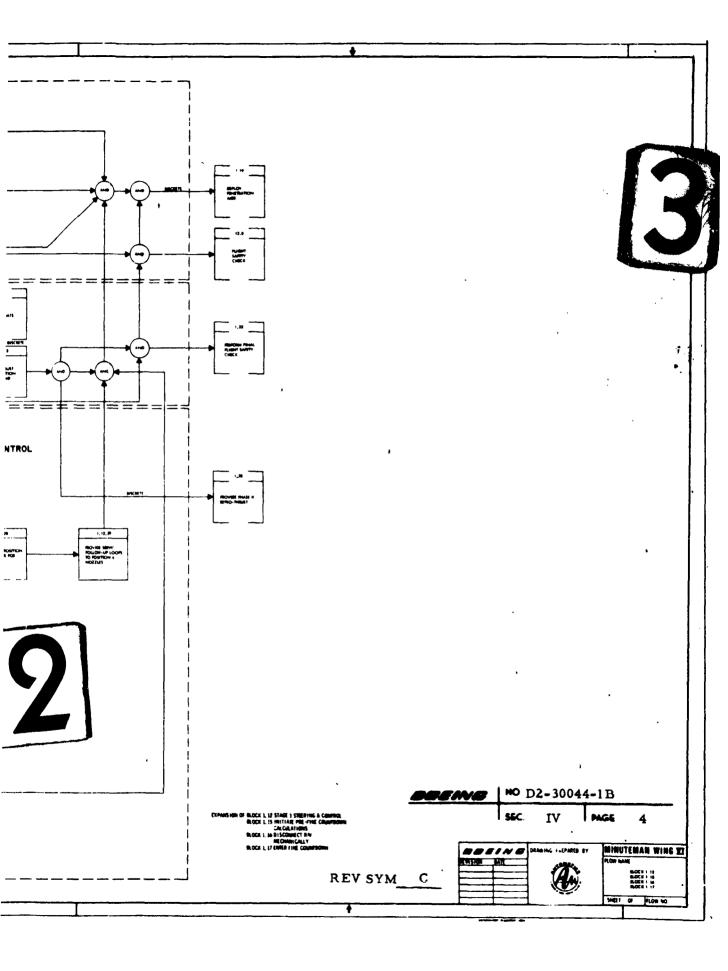


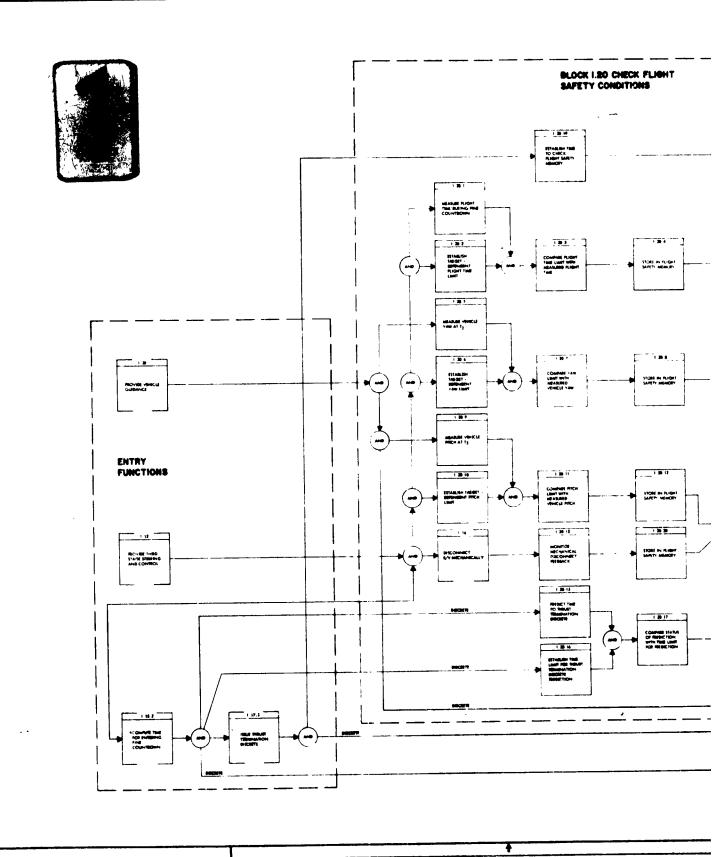




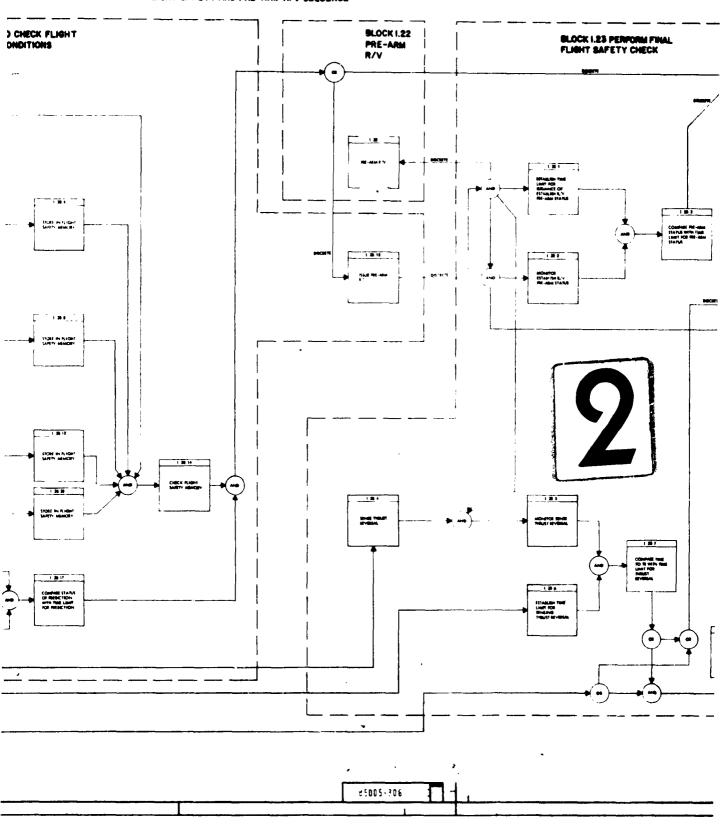


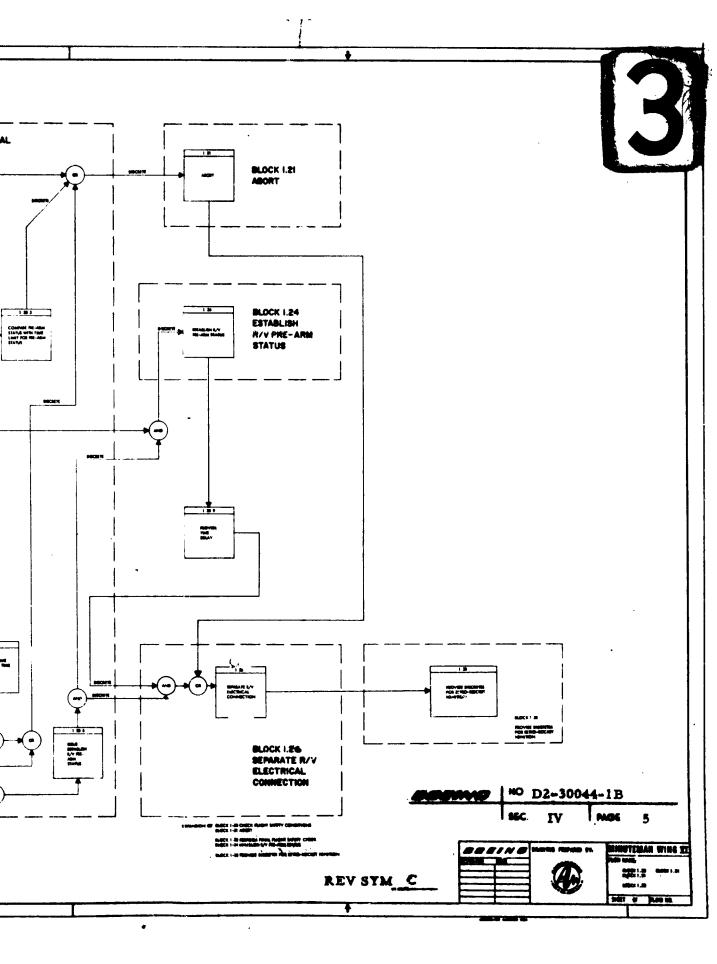


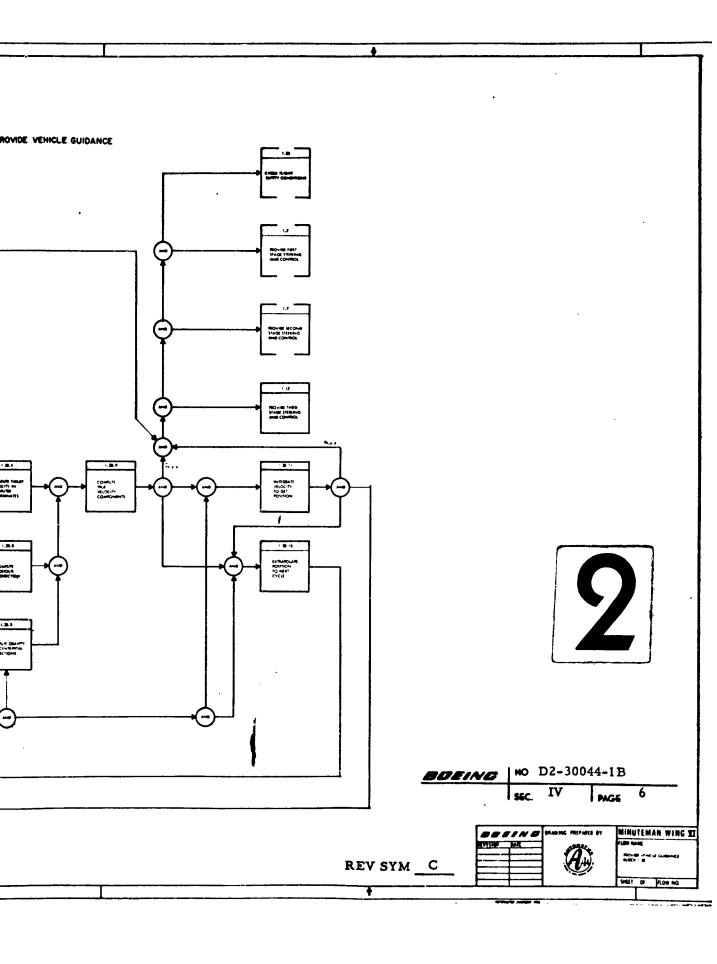


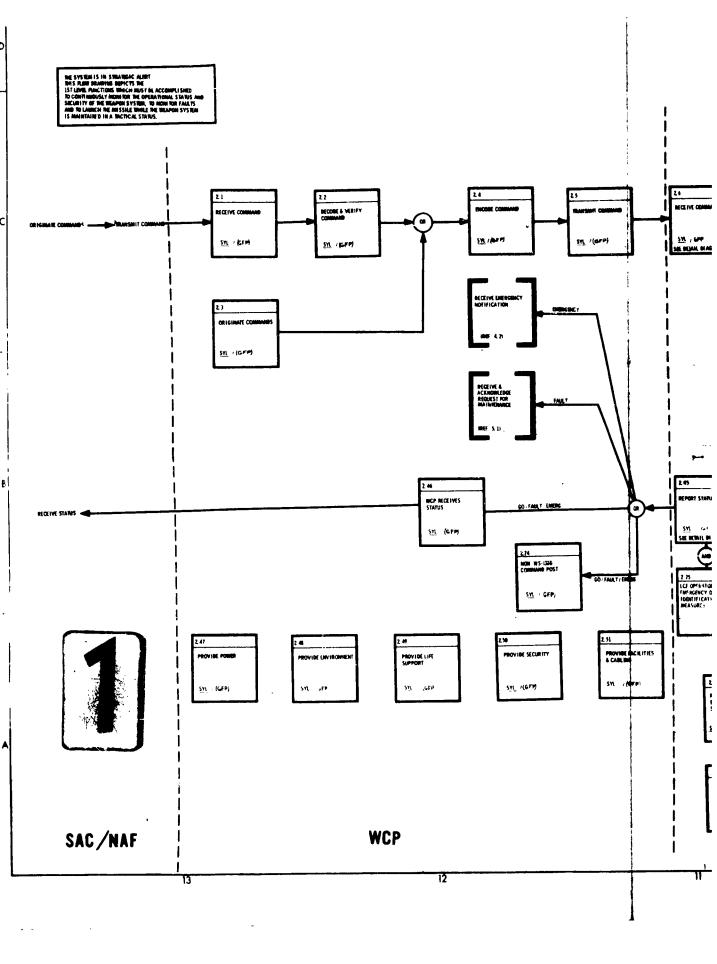


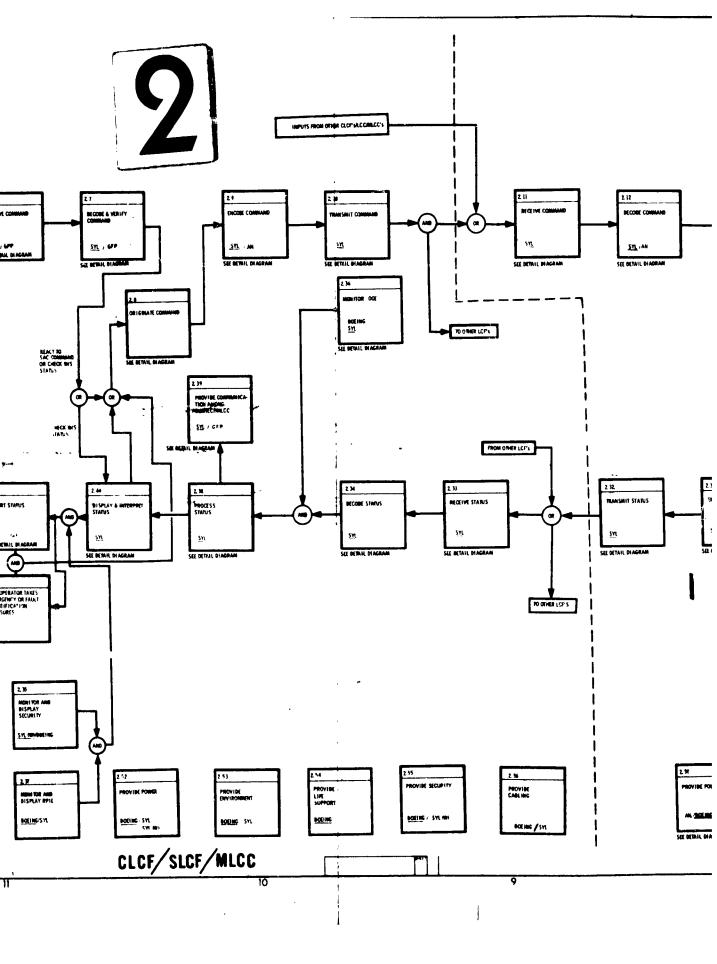
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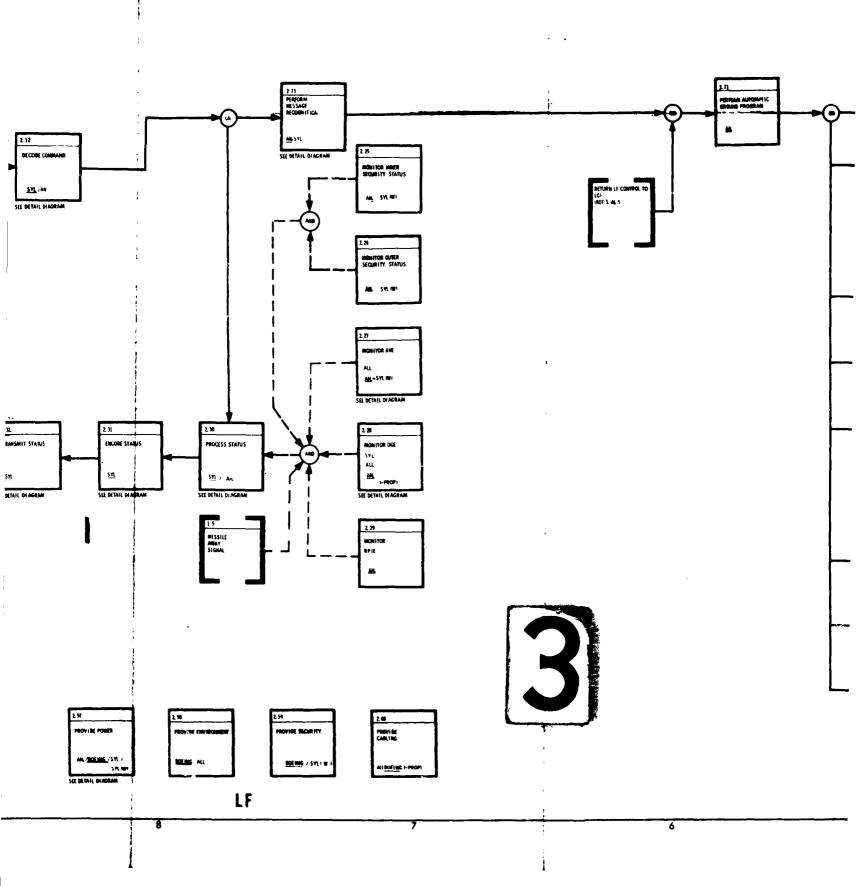


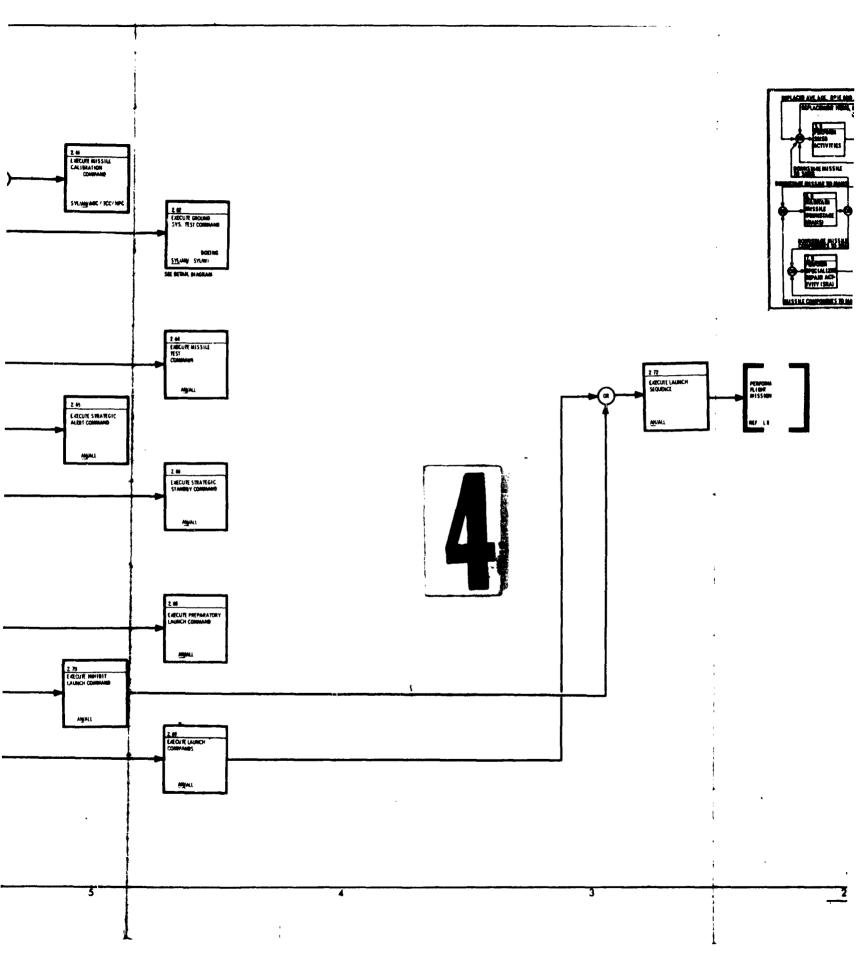


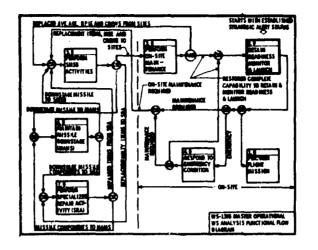


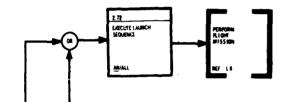












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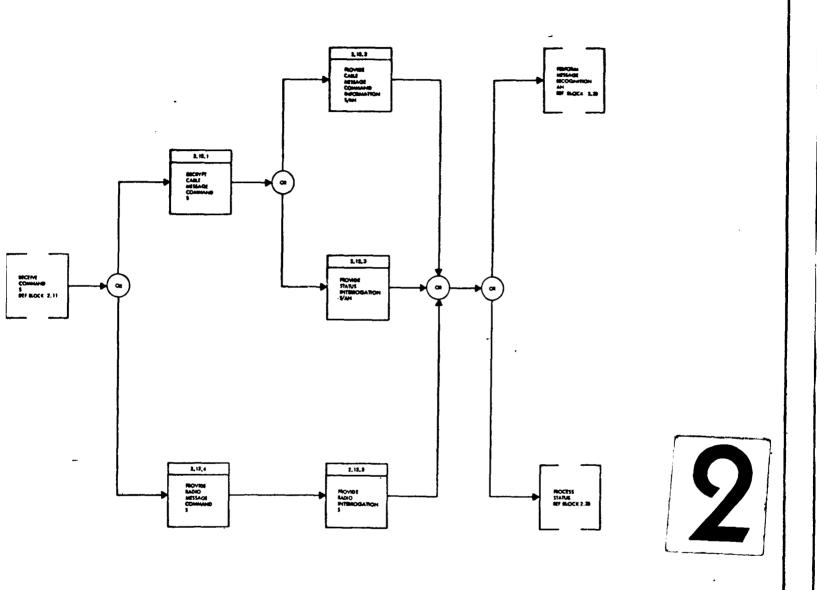
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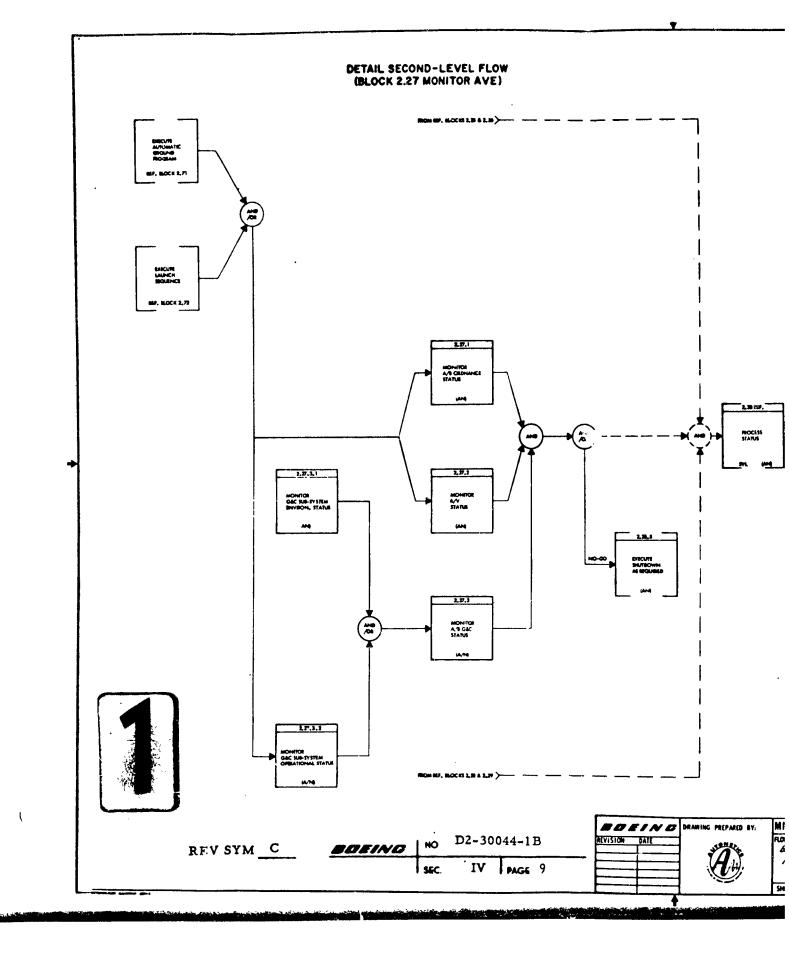
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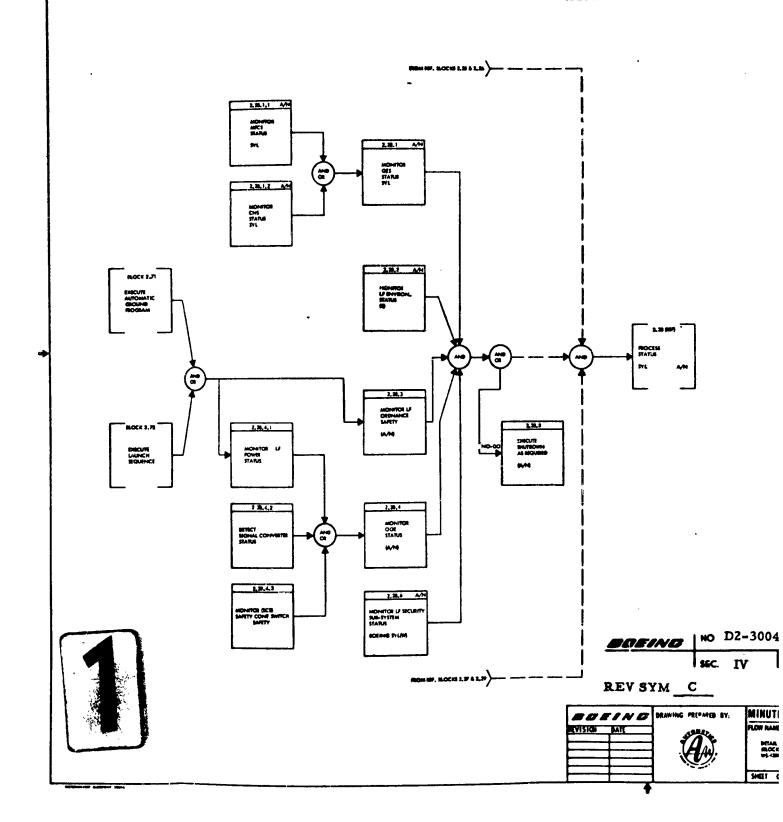
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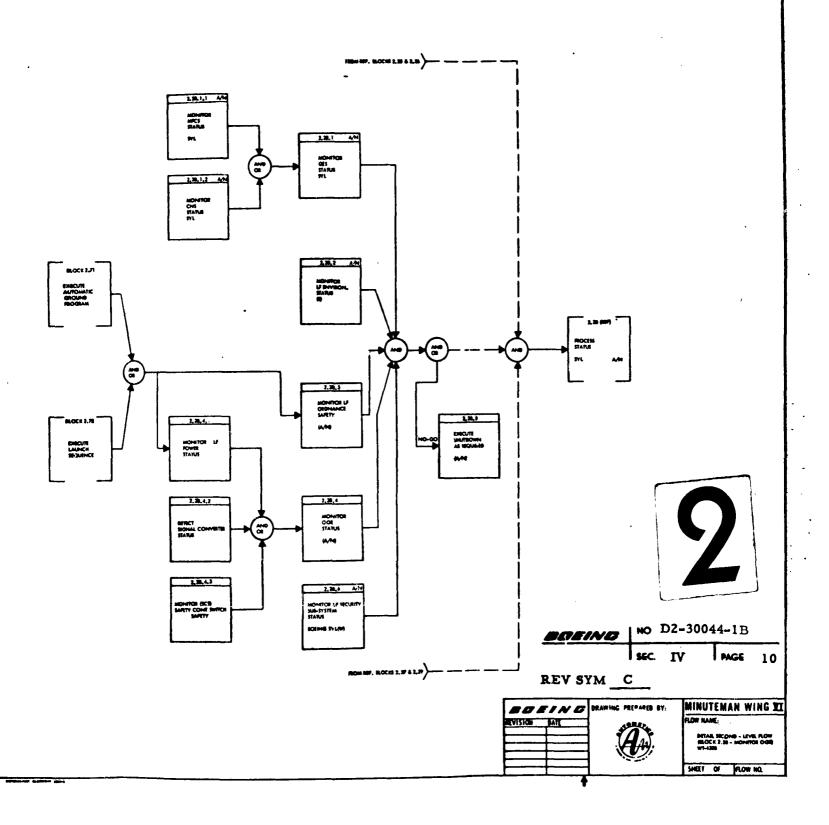
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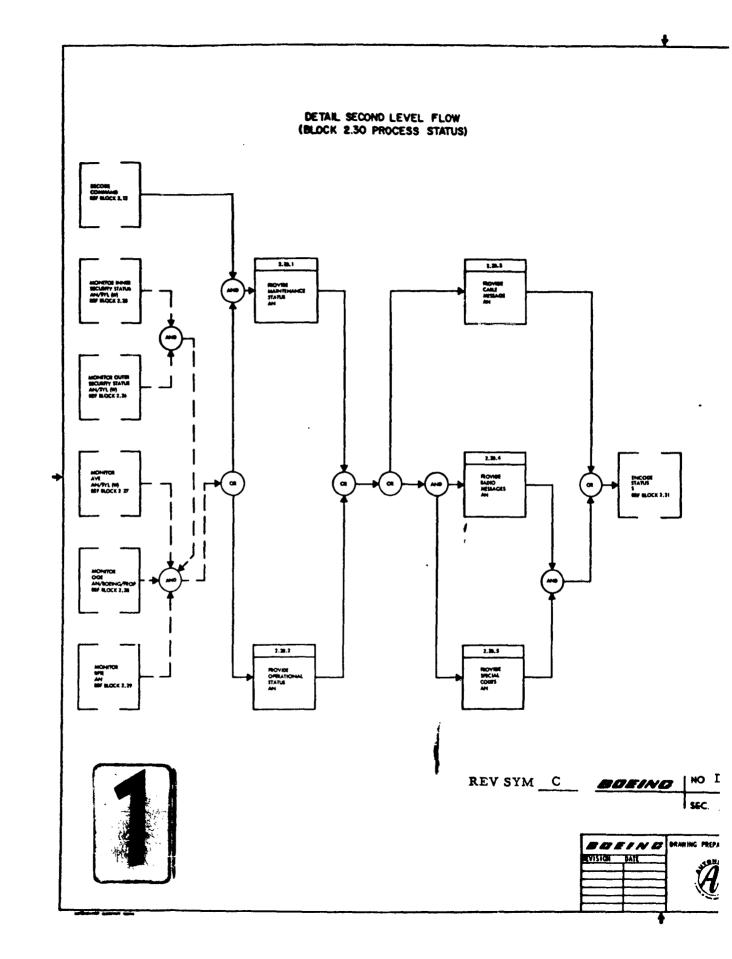


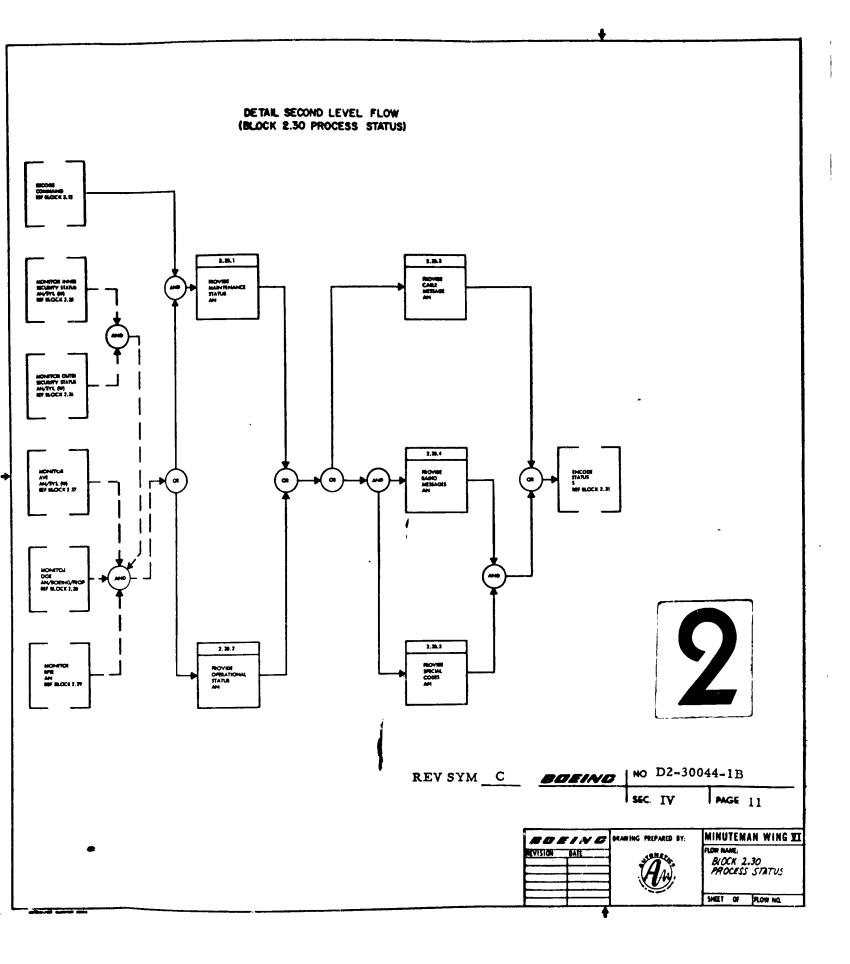
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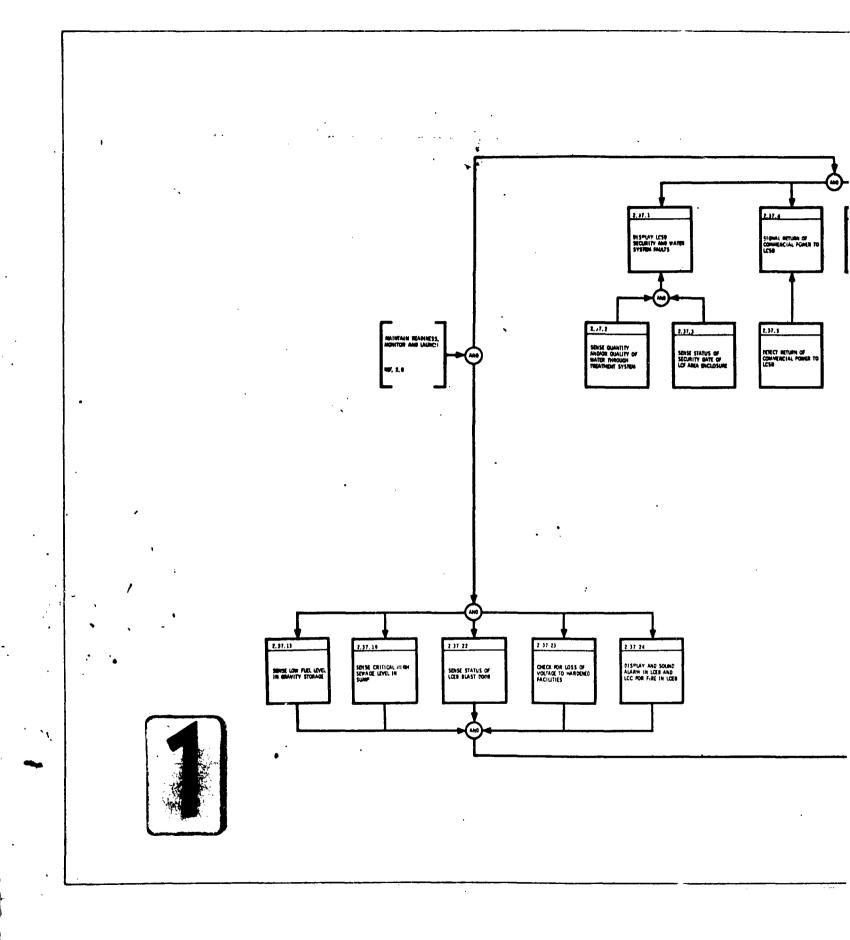


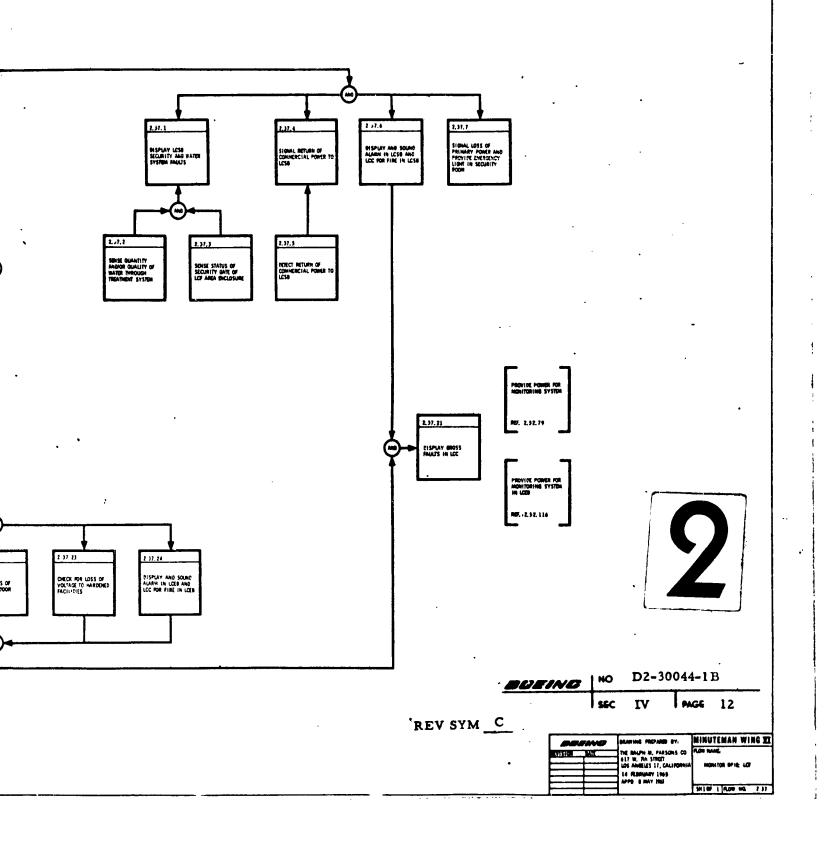
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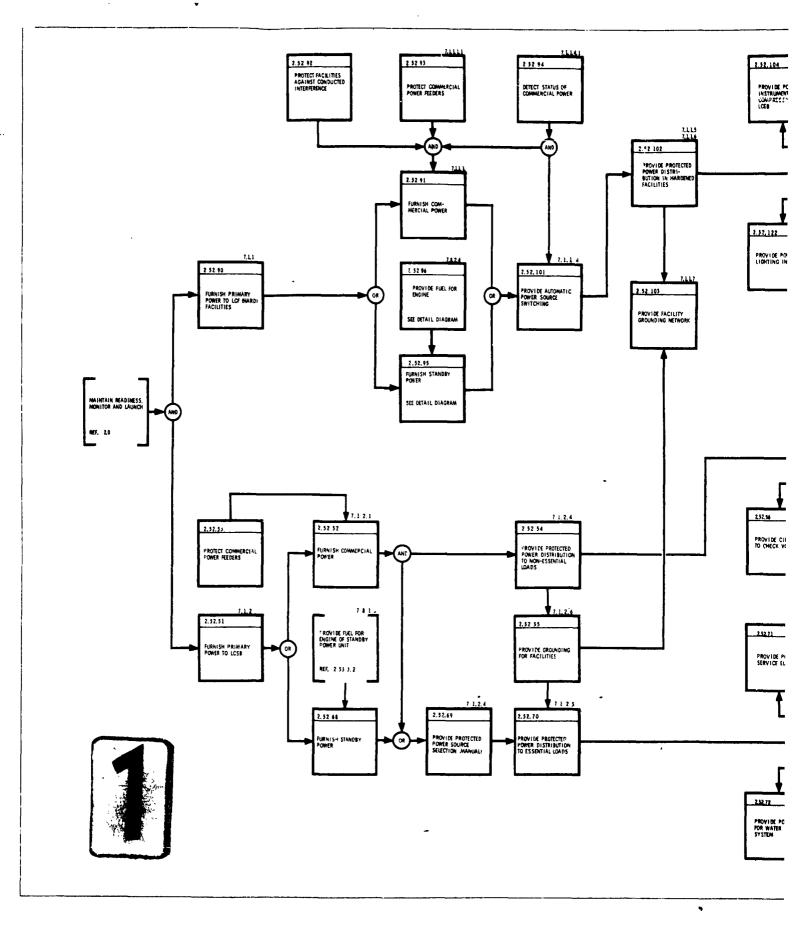


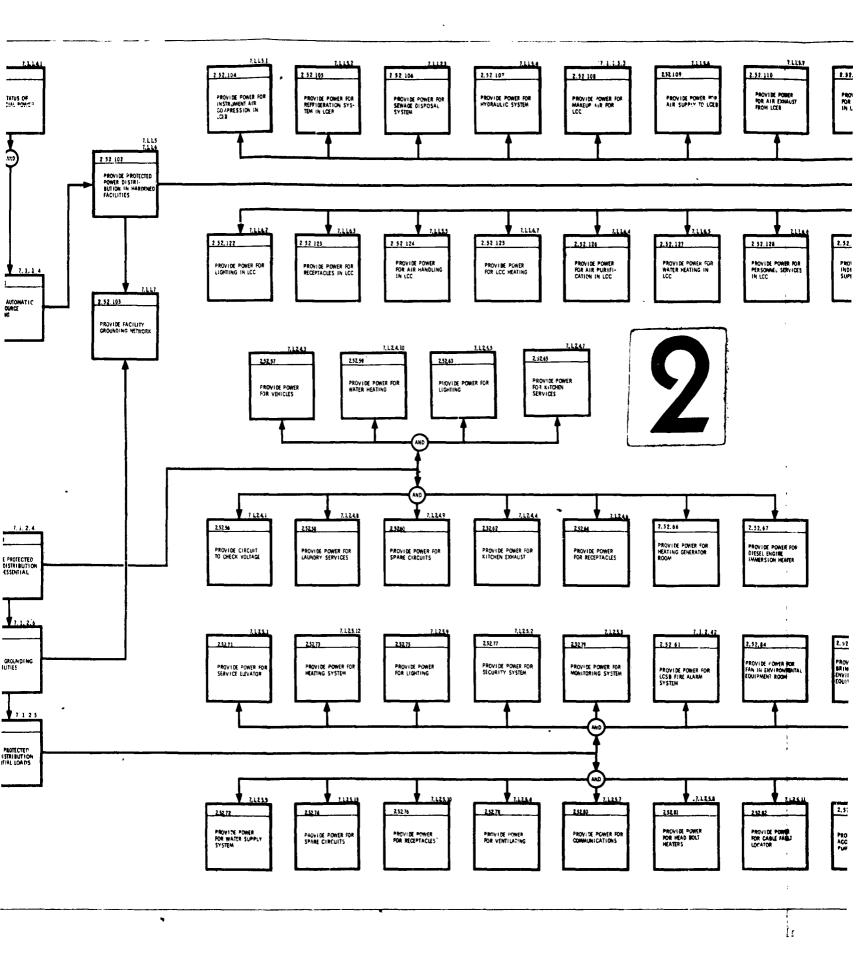


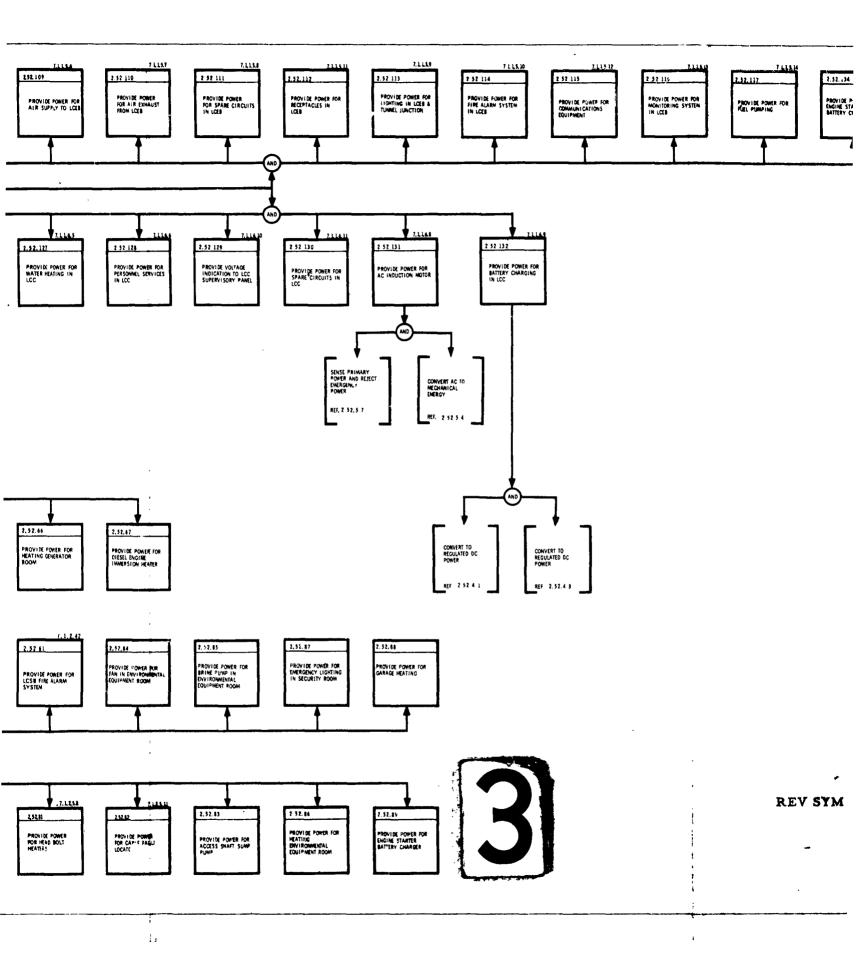




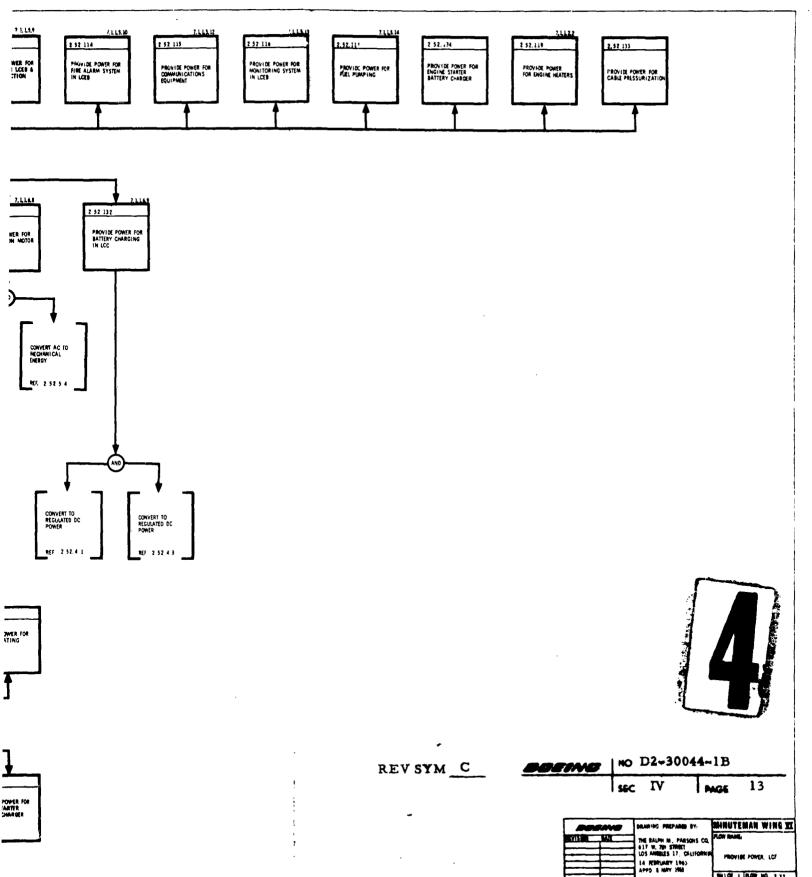




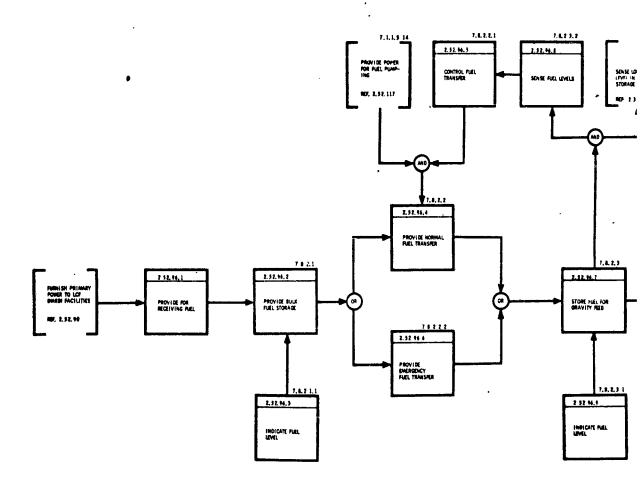






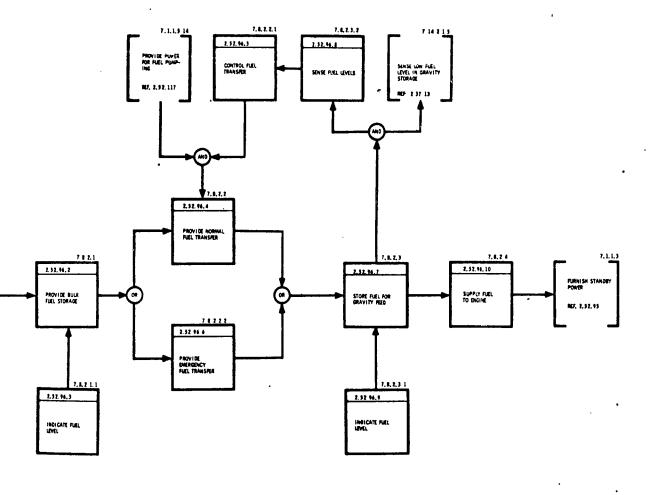


PROVISE POWER, LCF \$M1 OF 1 PLOW NO. 2 32



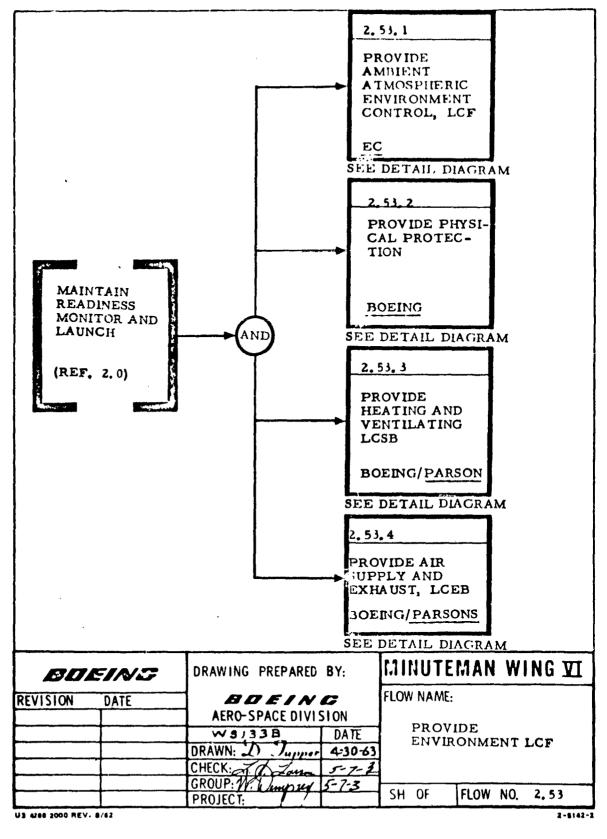


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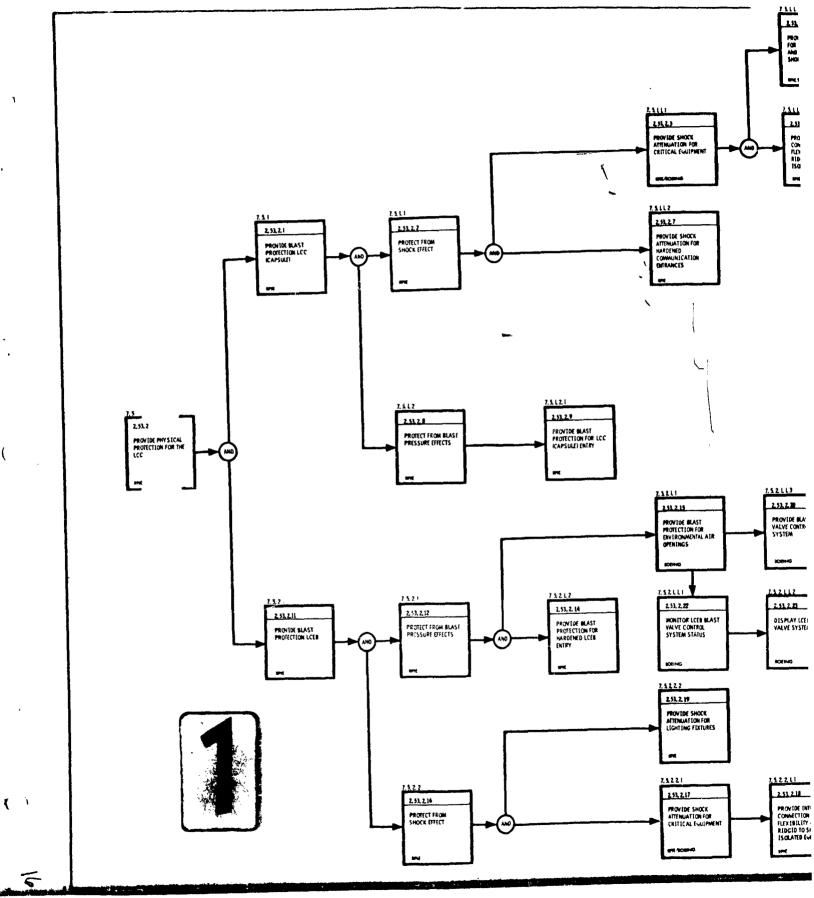
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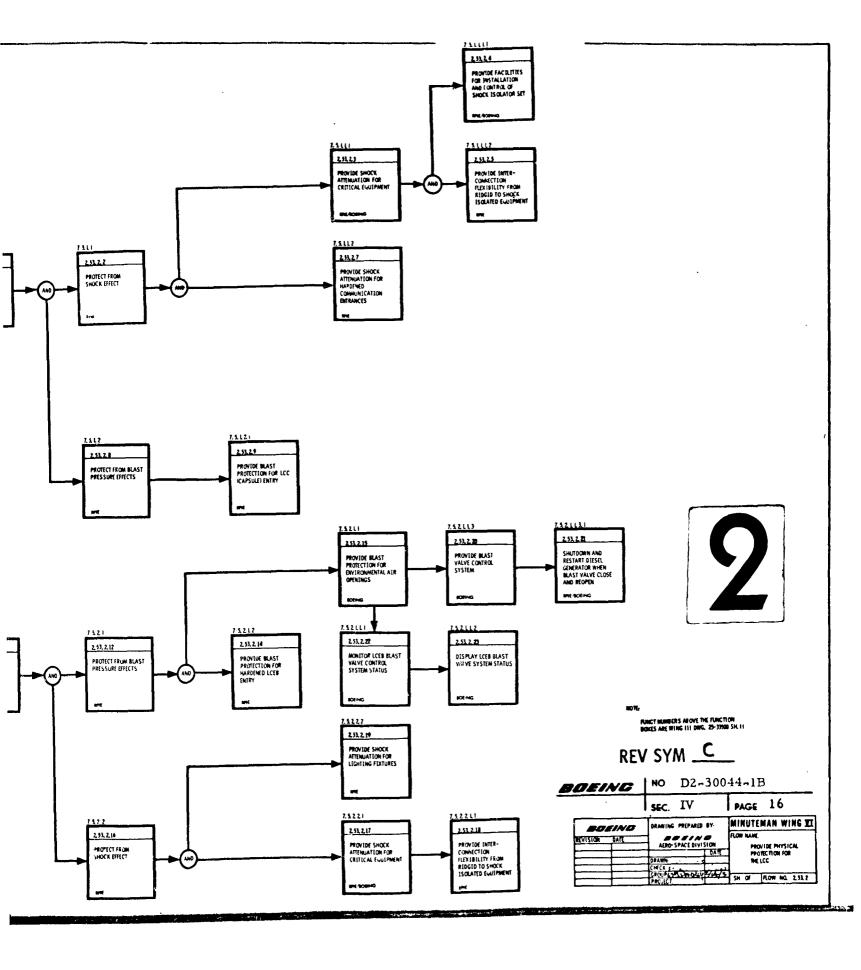


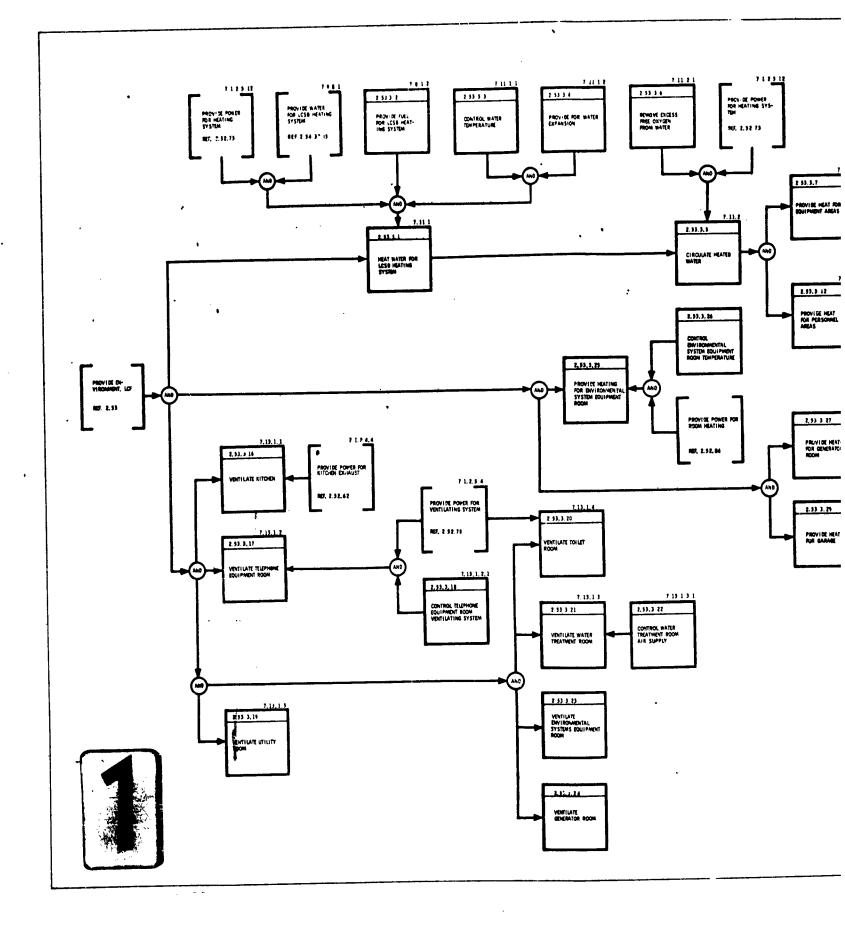
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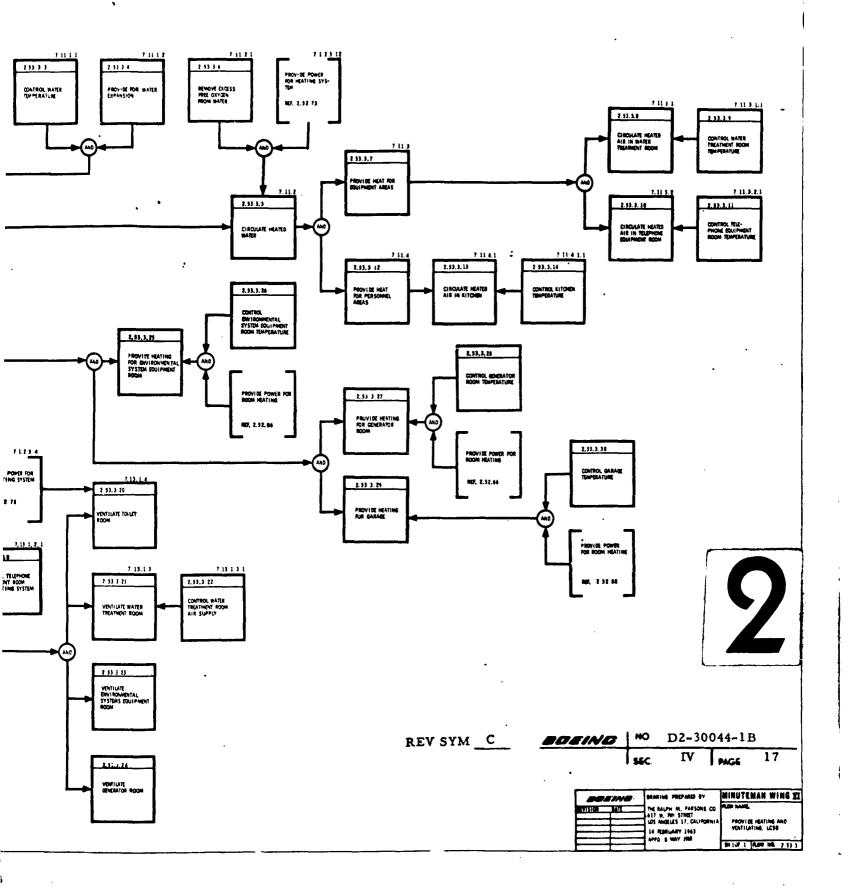
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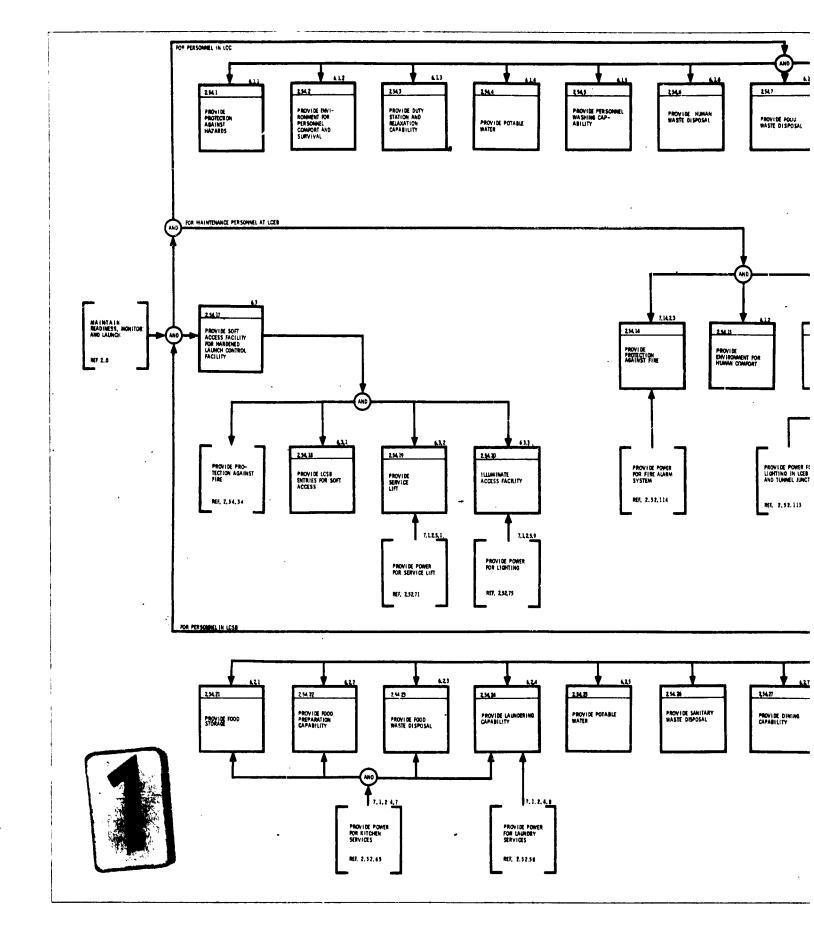


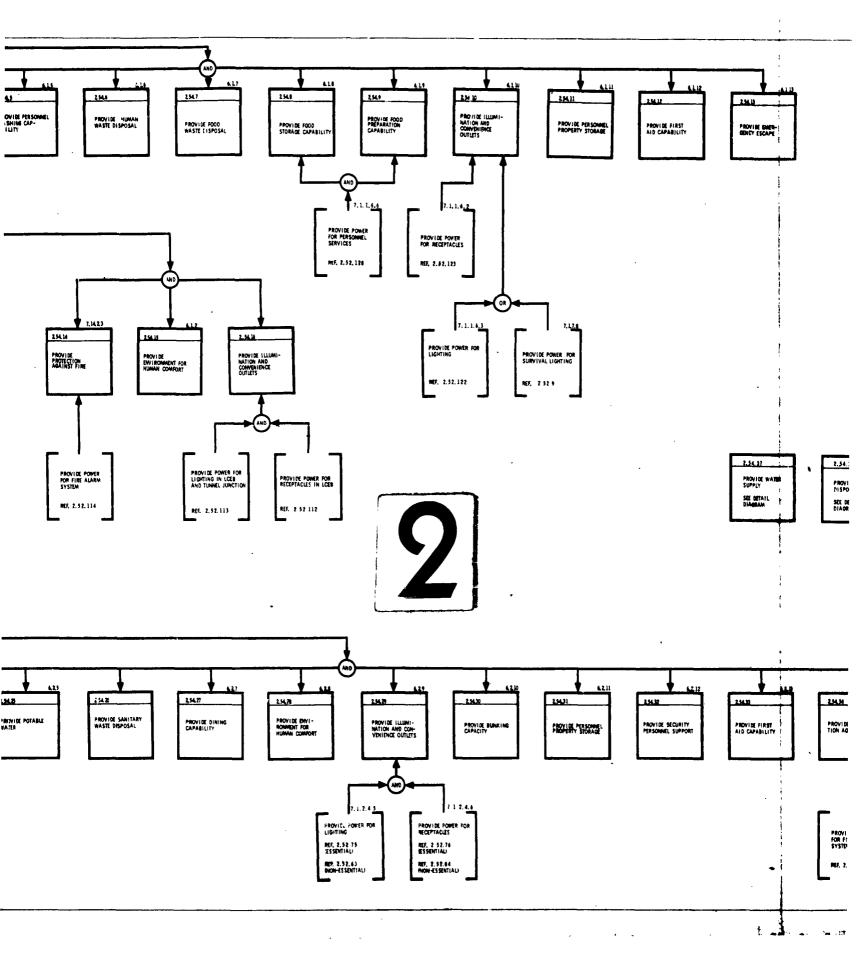
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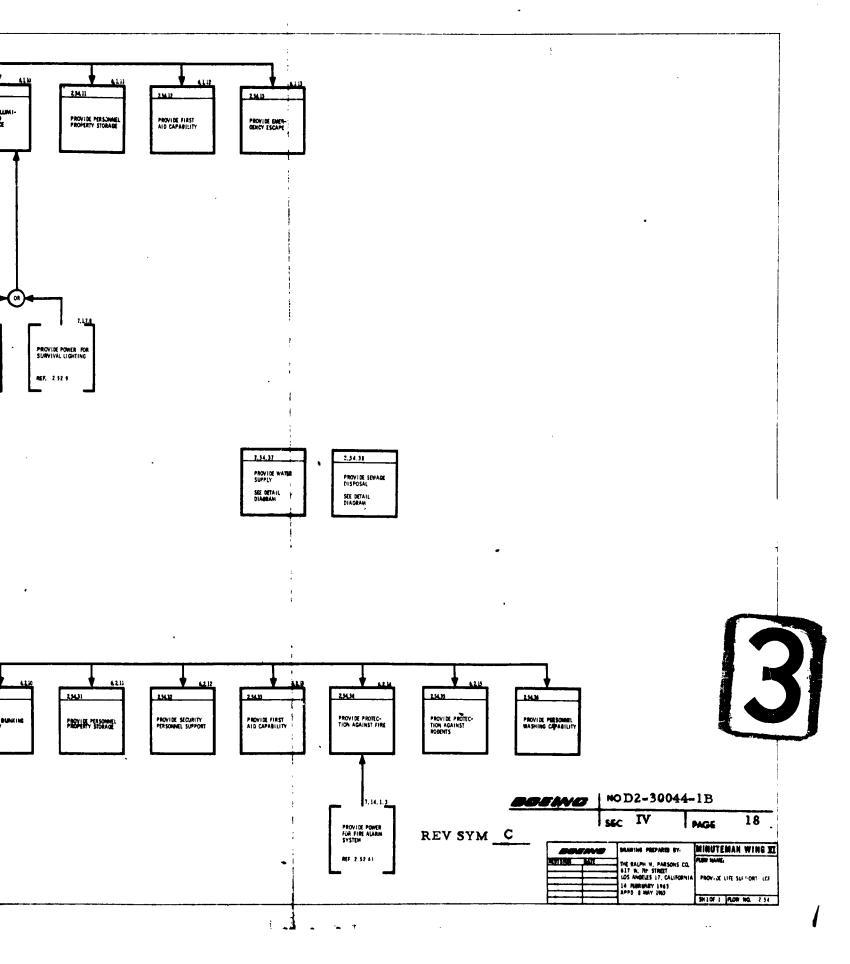


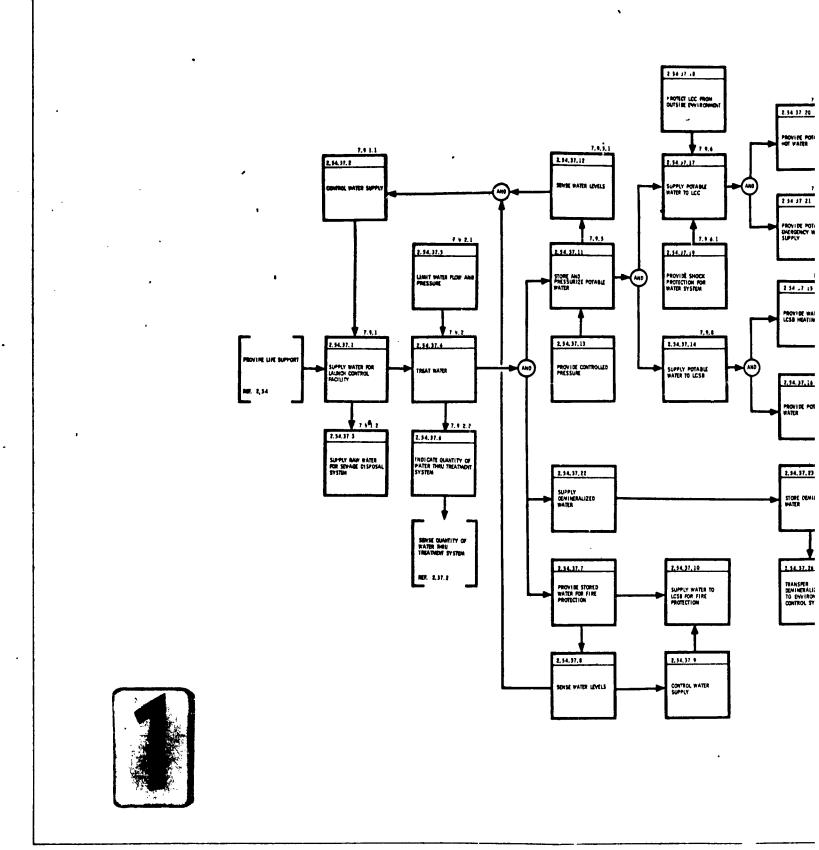


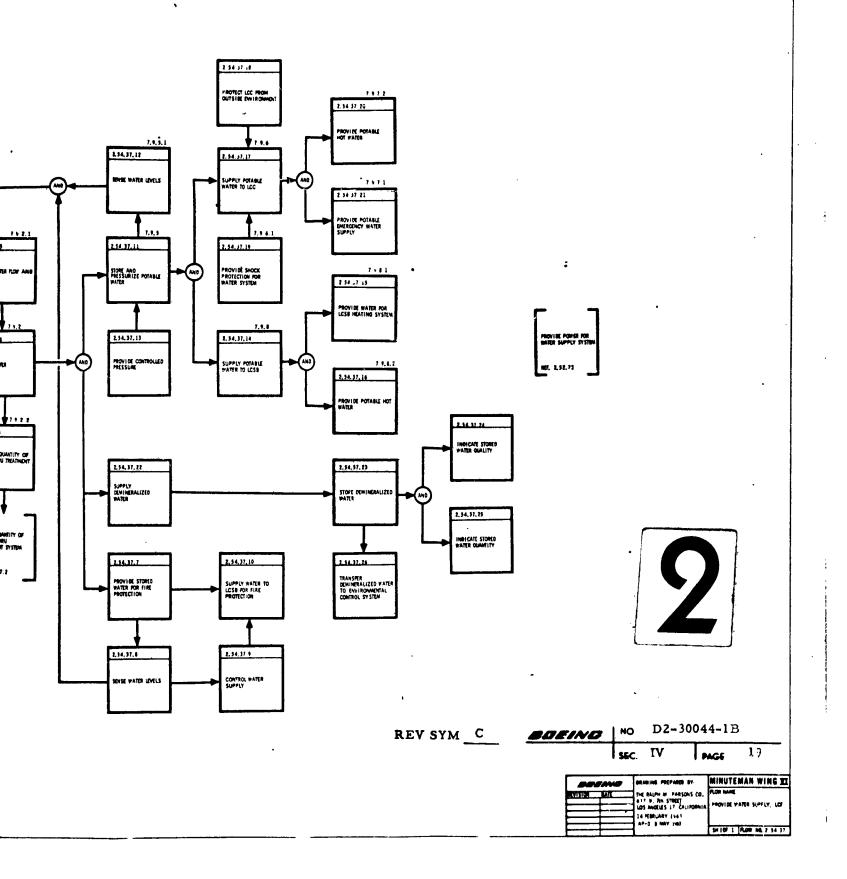


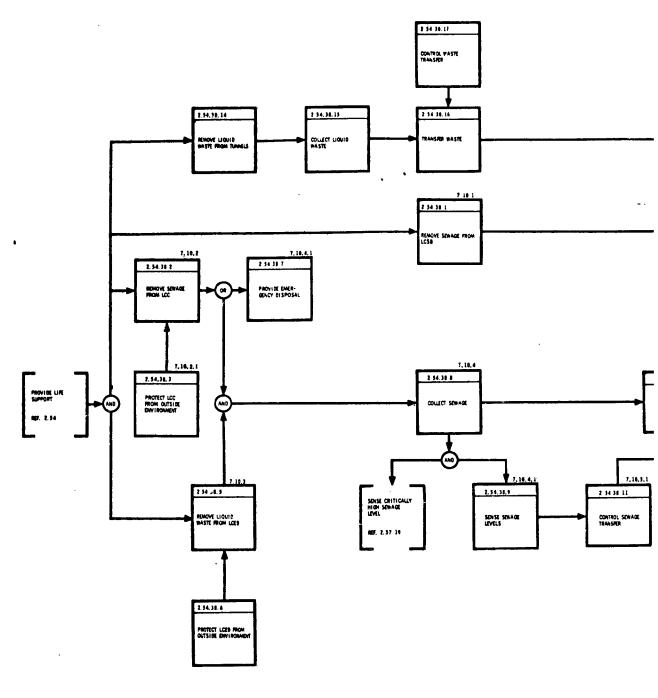










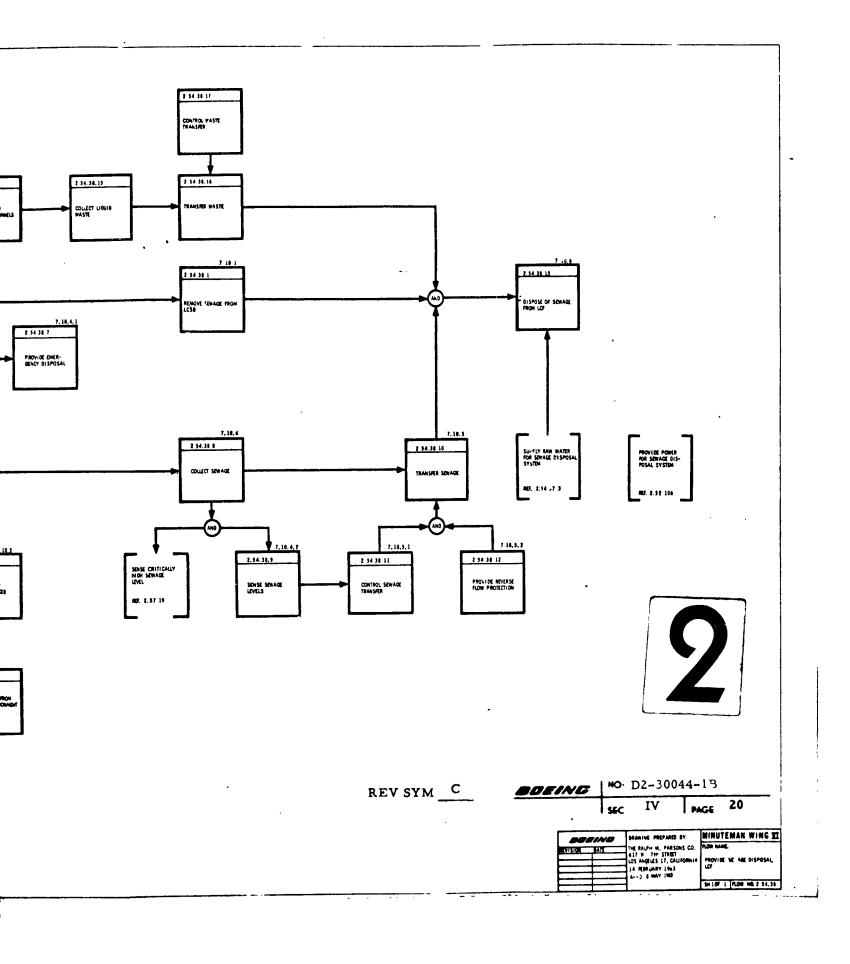


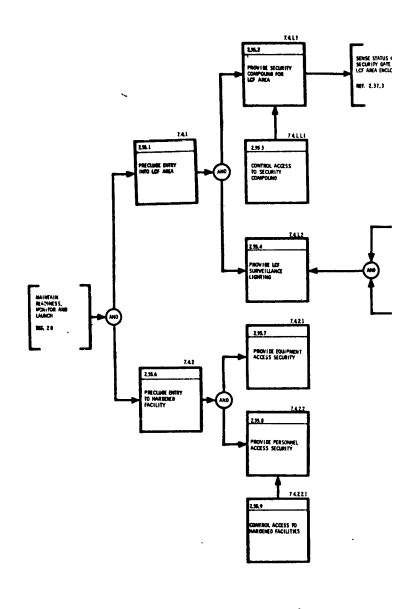


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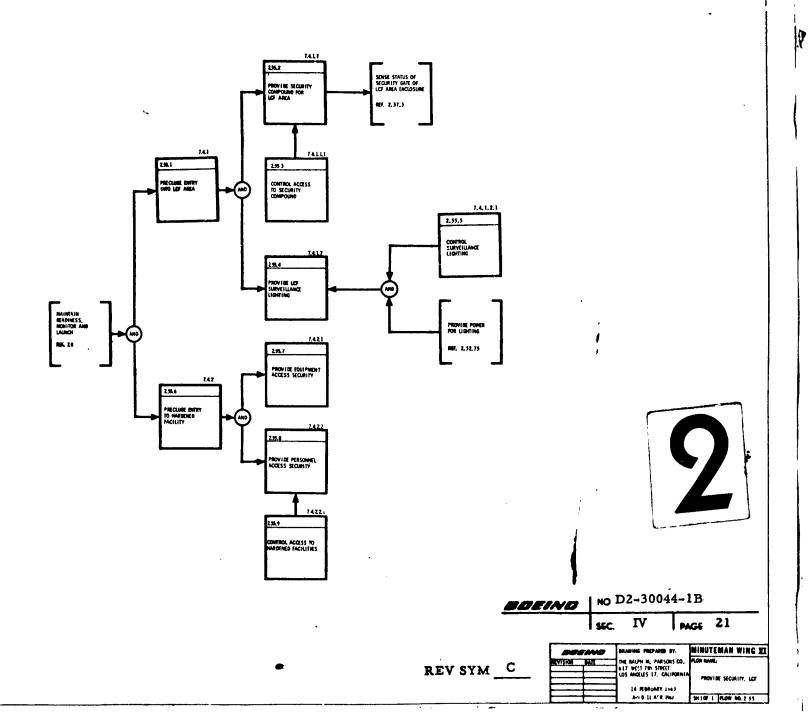
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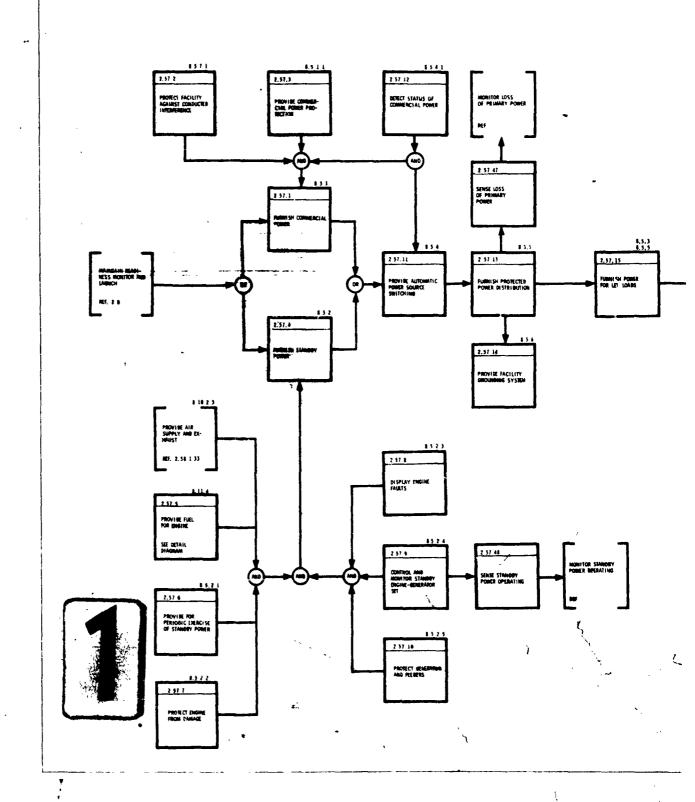
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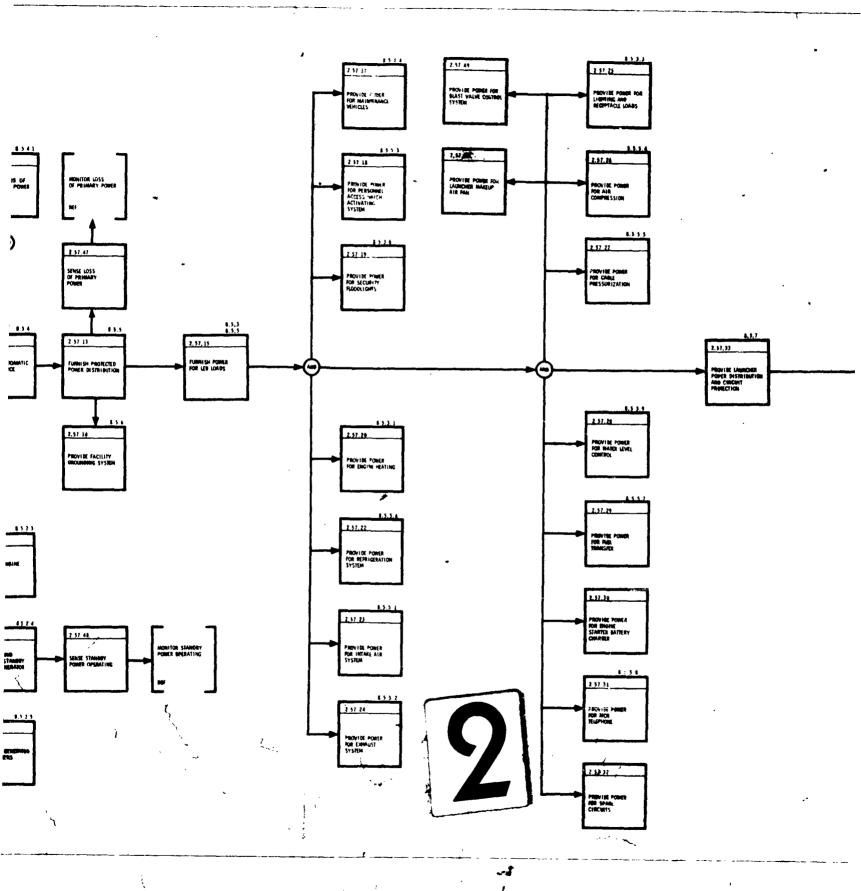


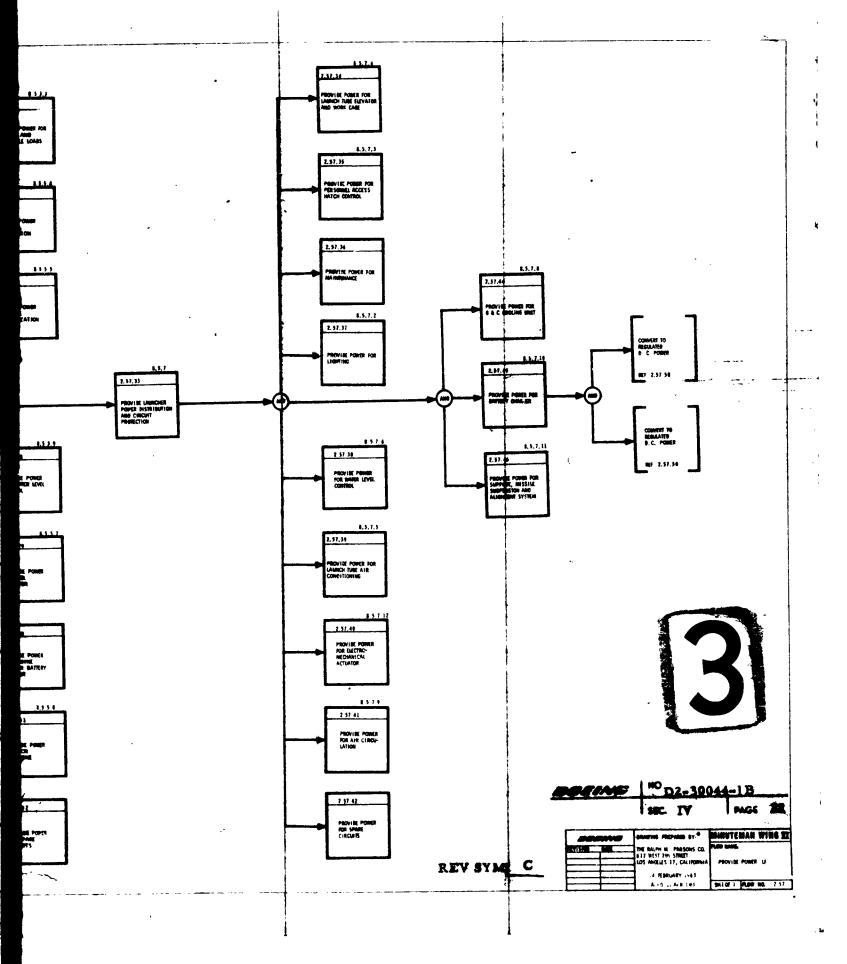


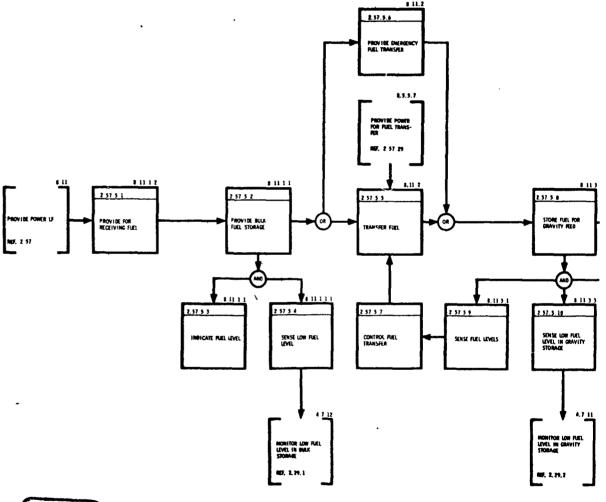




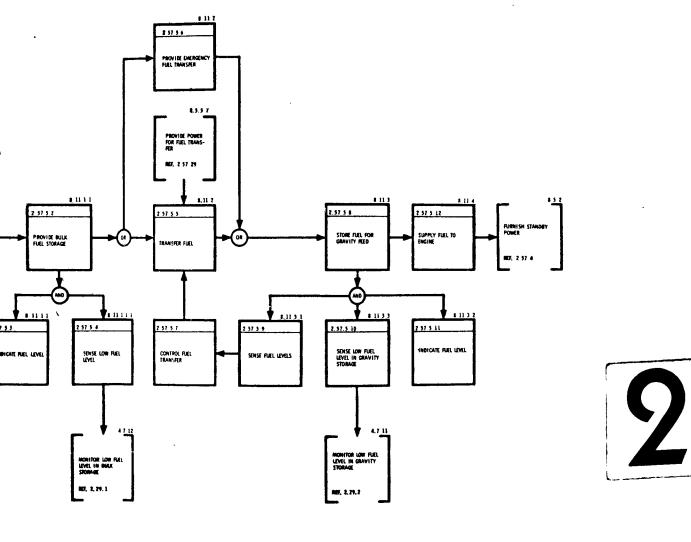
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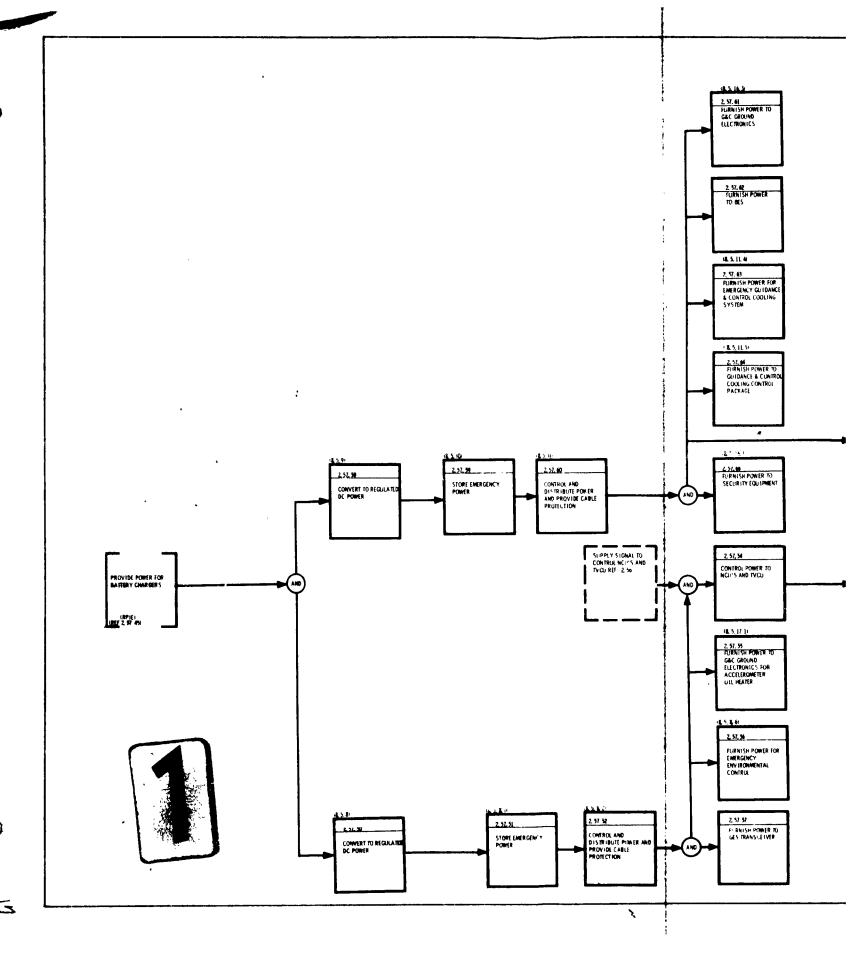


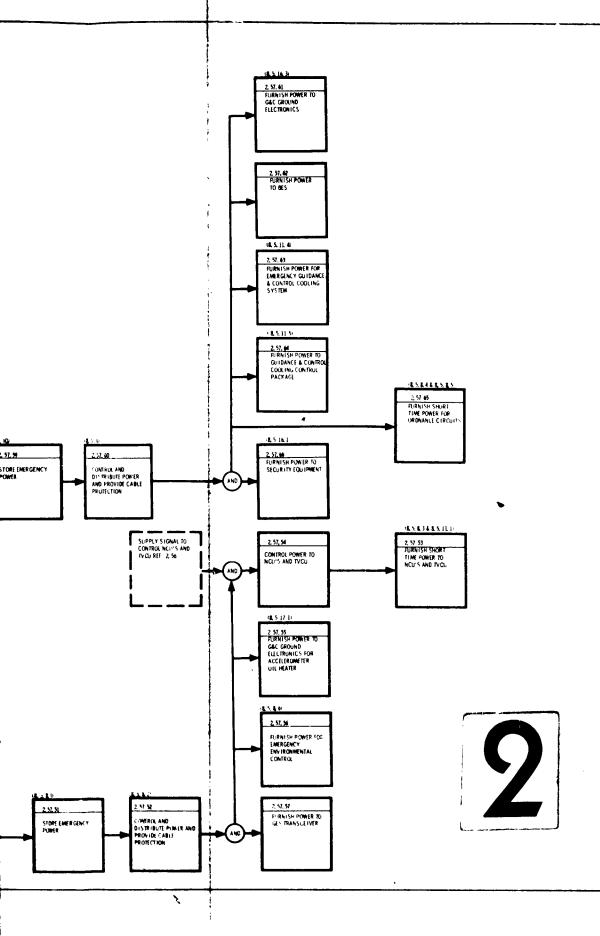




REV SYM C BOSING NO D2-30044-1B SEC. IV MGE 23

BUSIND	GRAMING PREPARED BY.	MINUTEMAN WING TO	
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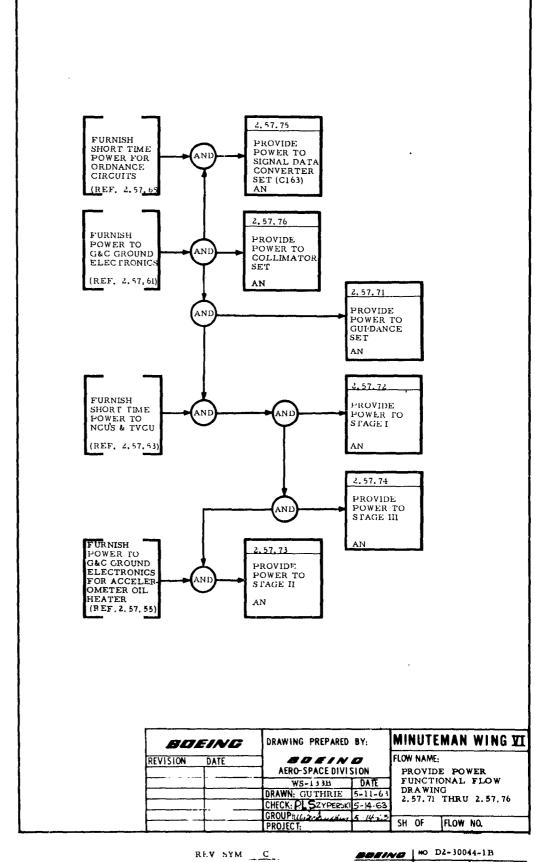
NOTE
FUNCTION NUMBERS ABOVE THE BOXES
ARE WS -133A DWG 25-18771 SHT 14

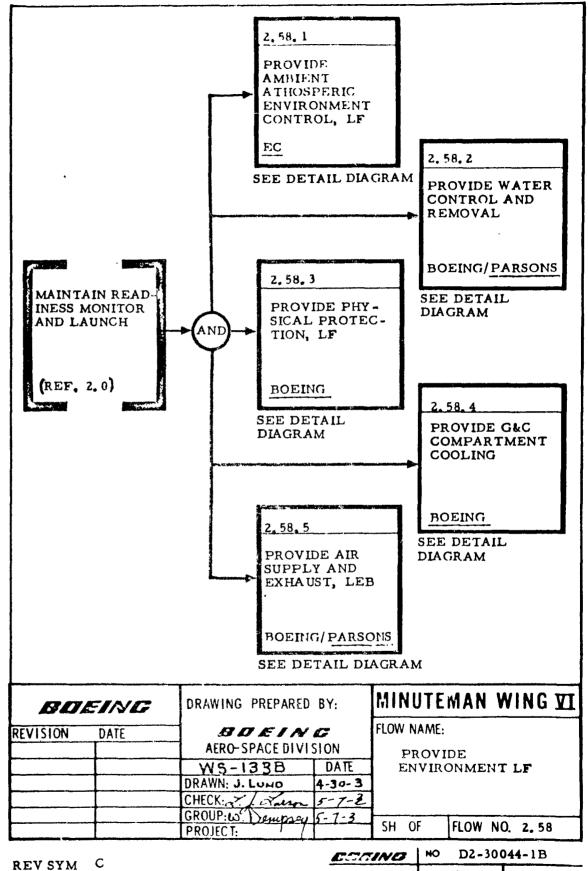


REV SYM C

DOEING NO D2-30044-1.3

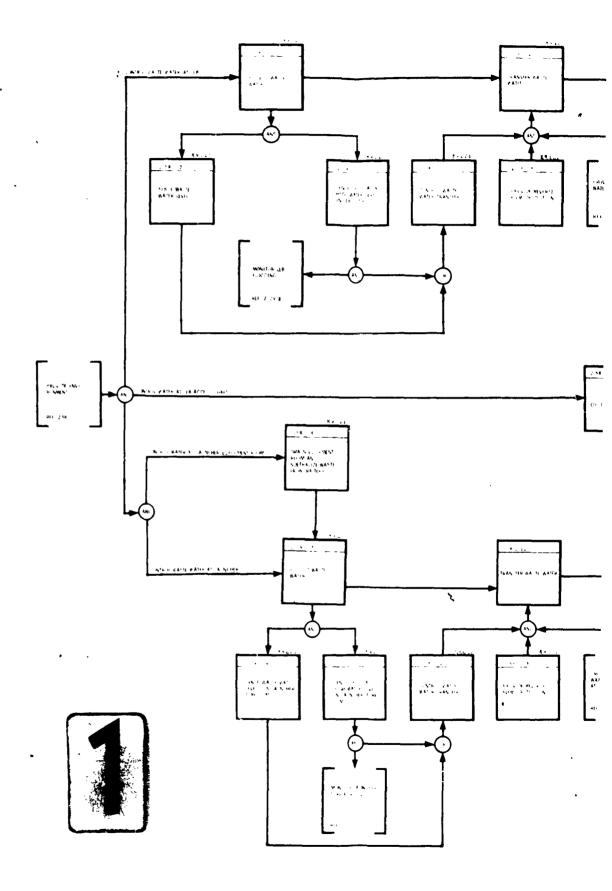
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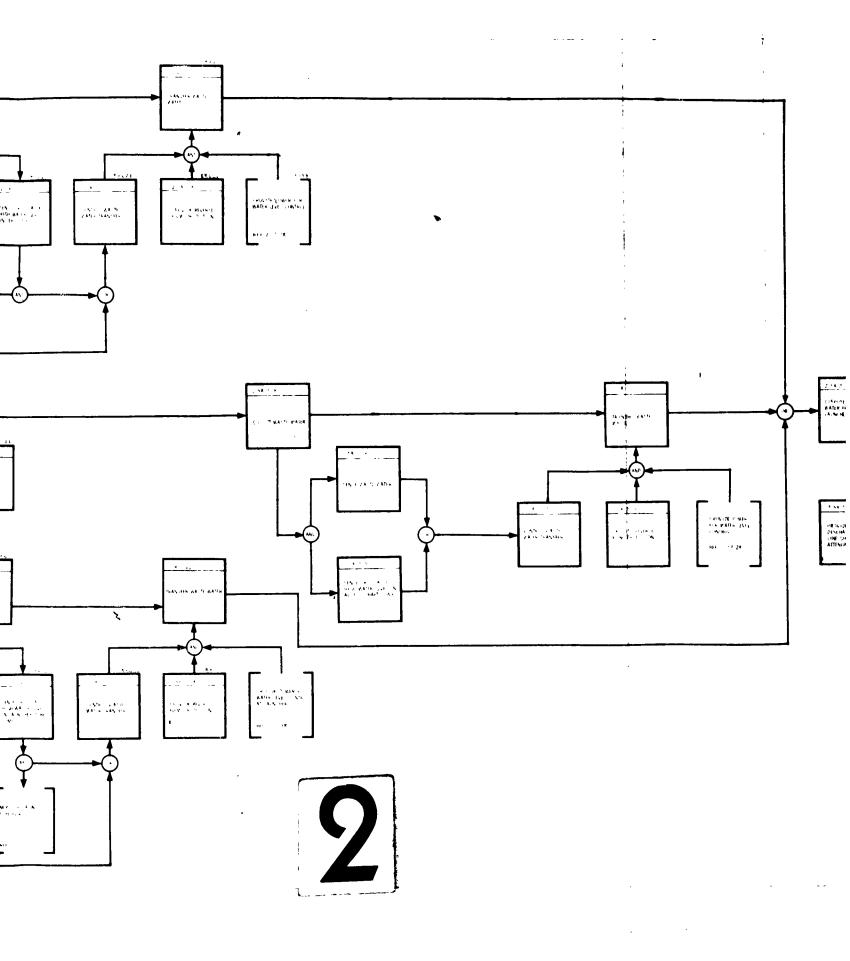


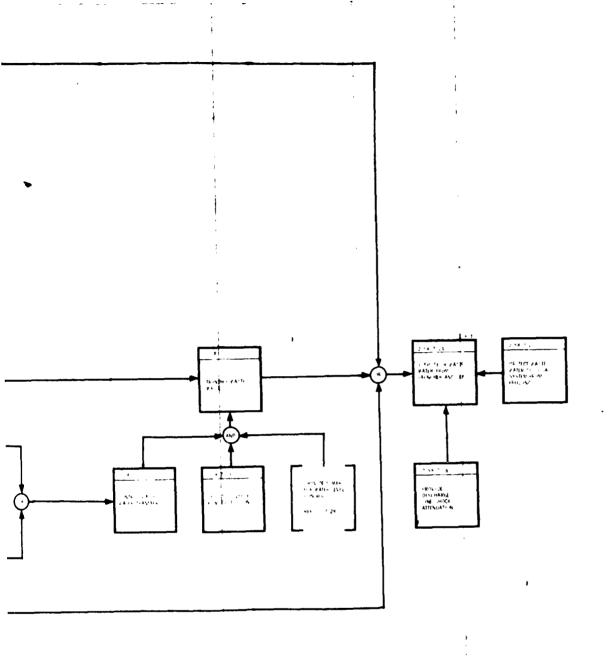


REV SYM C

SEC IV MGE 26







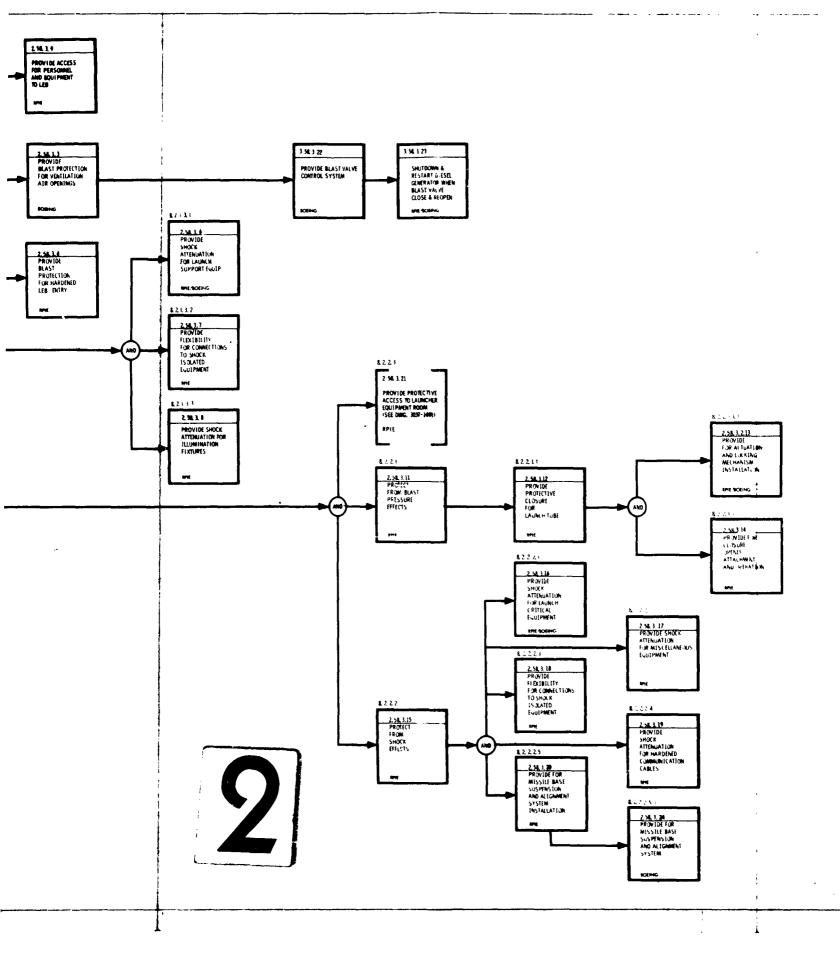


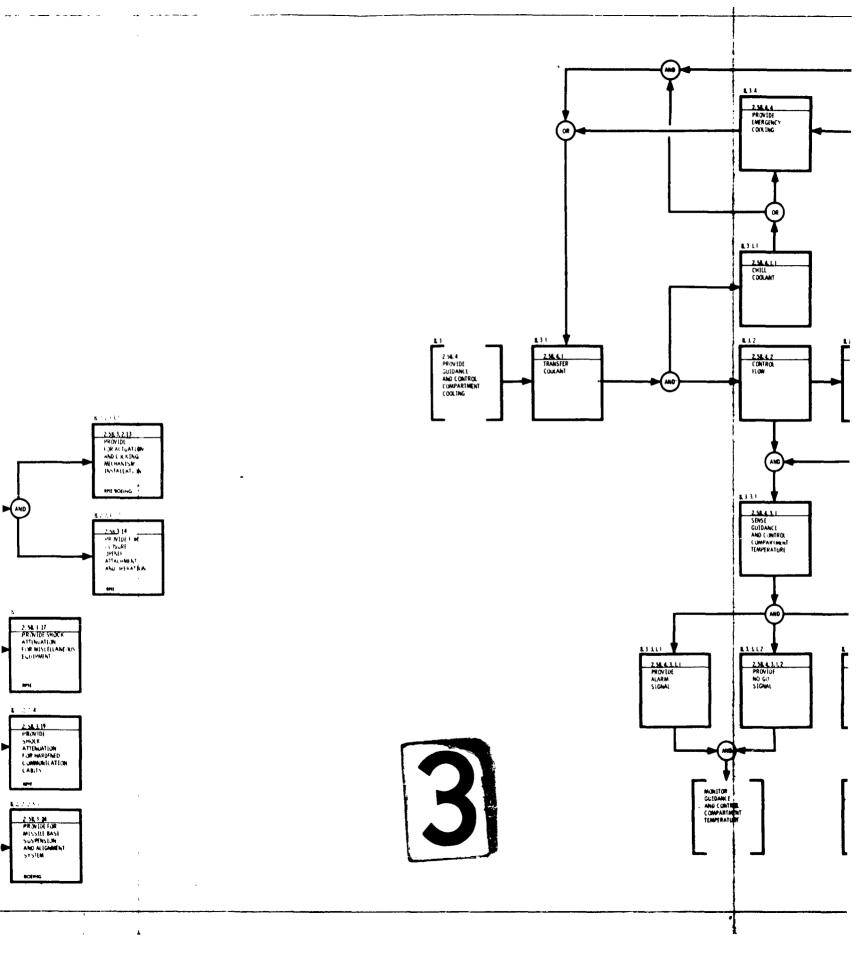
SEC IV MGE 27

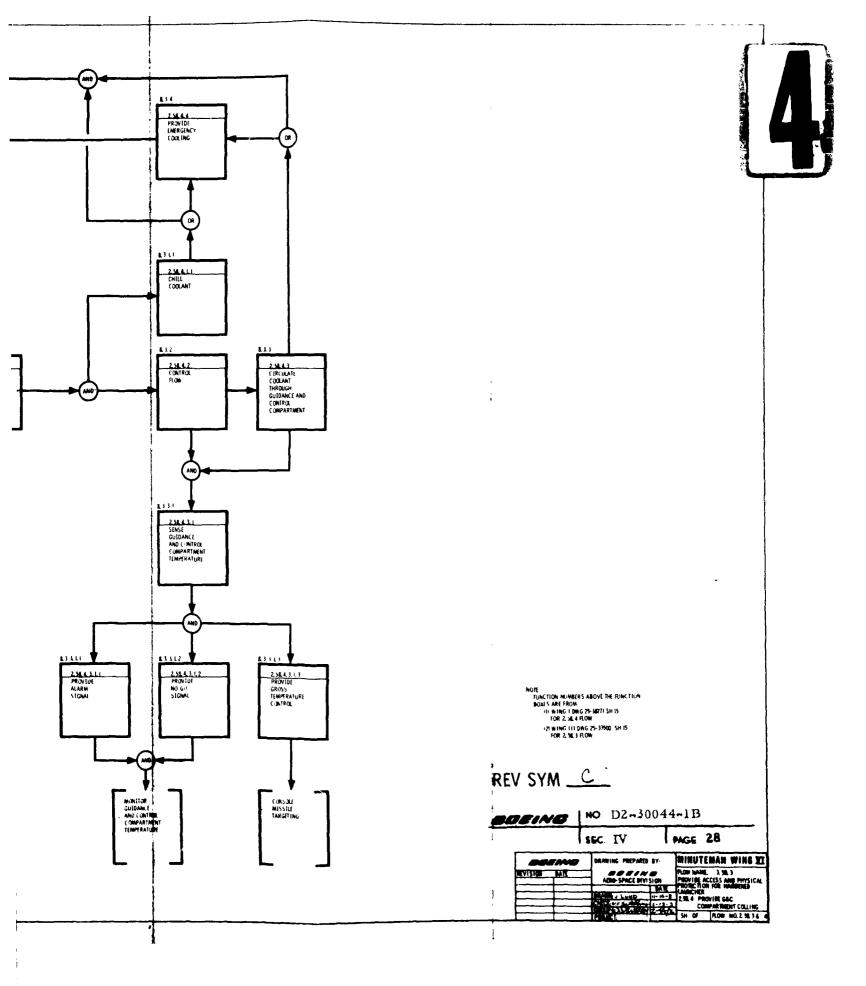
		BOSINO	DRAWING PREPARED BY	MINUTEMAN WING XI
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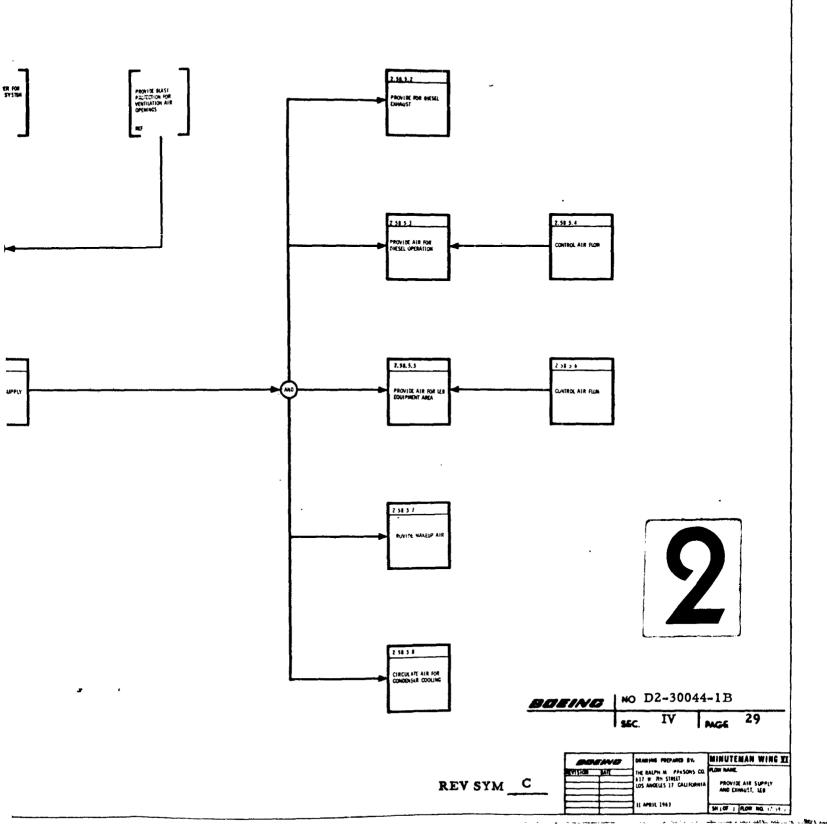
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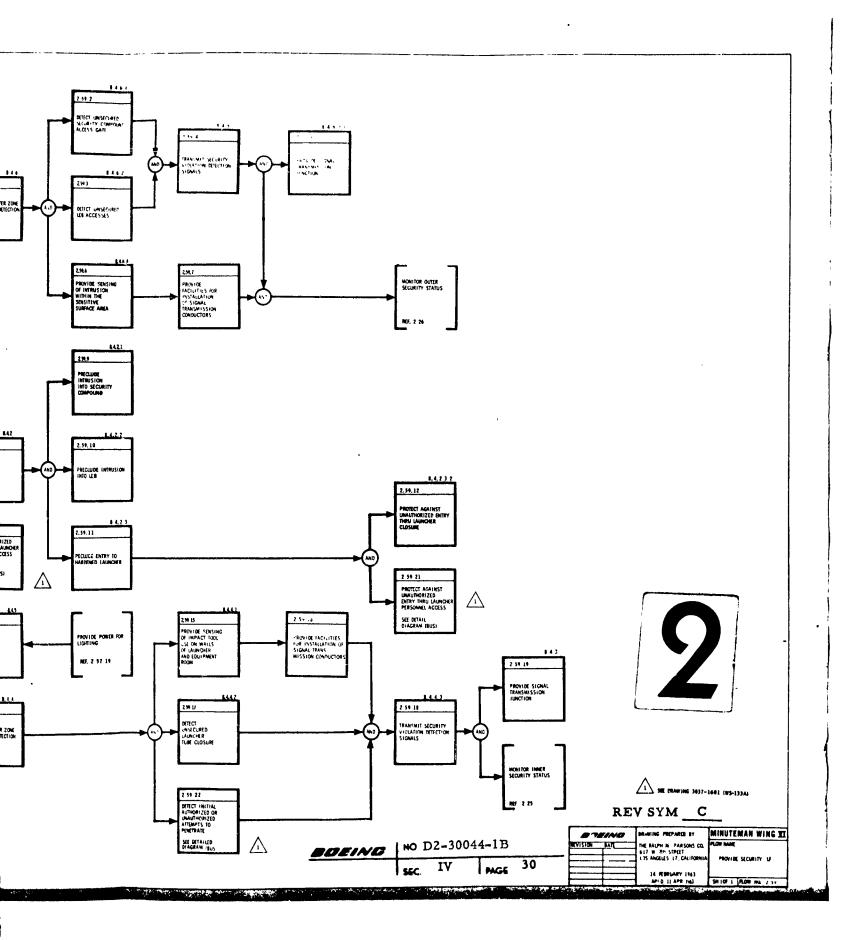


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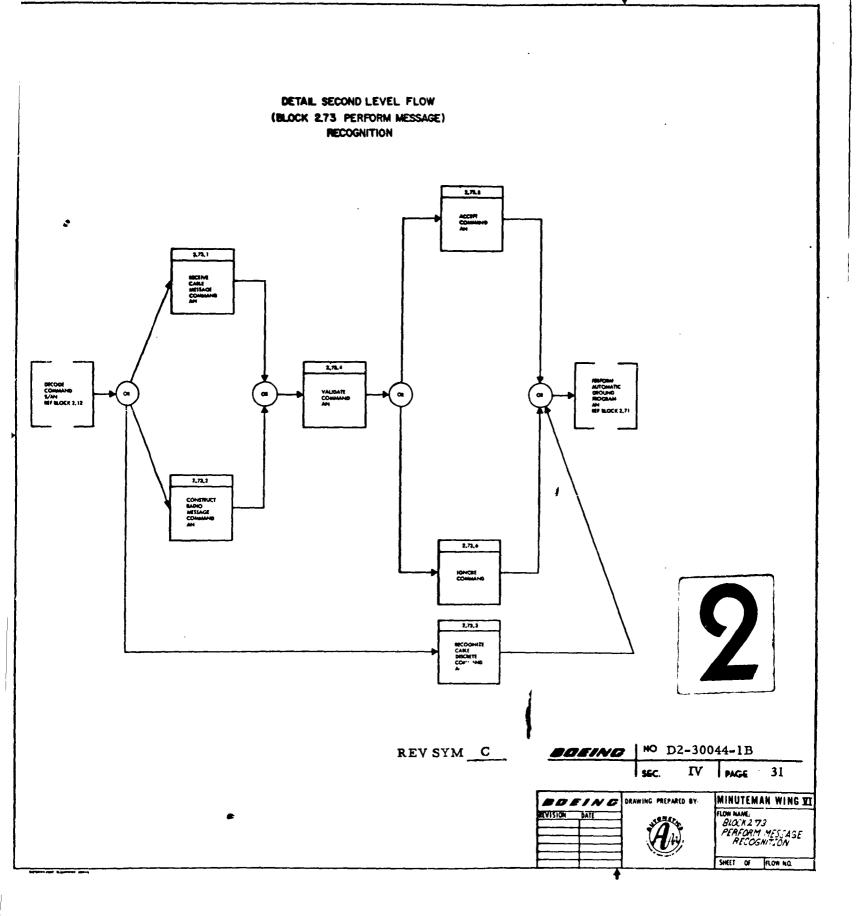
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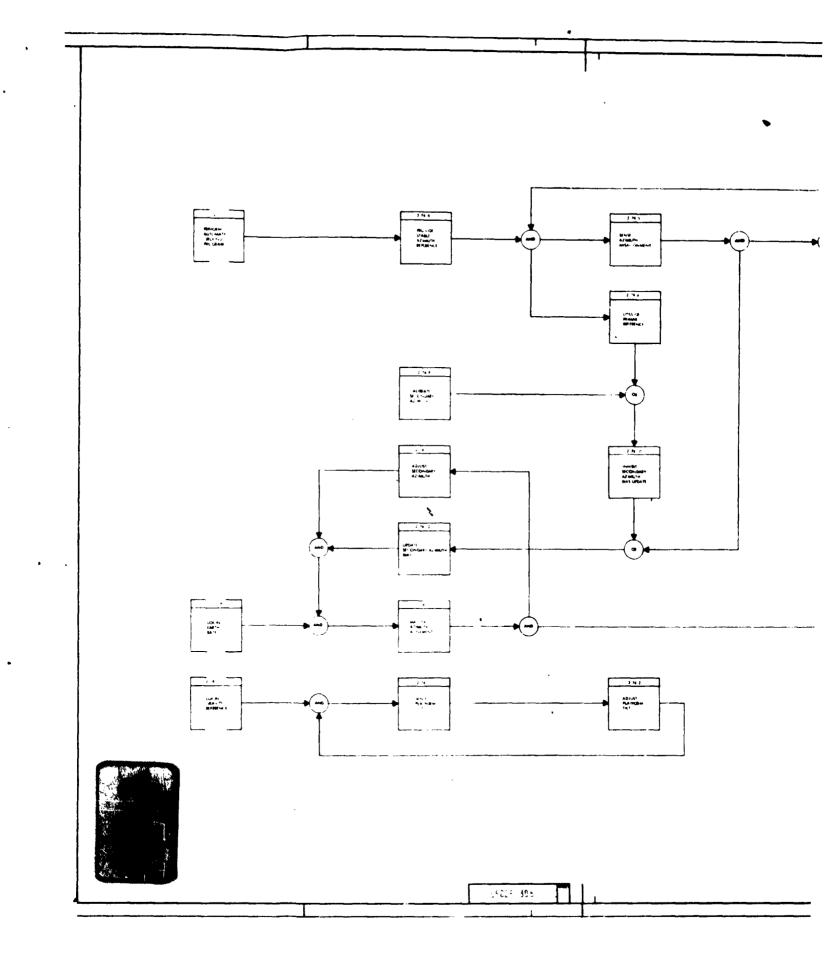
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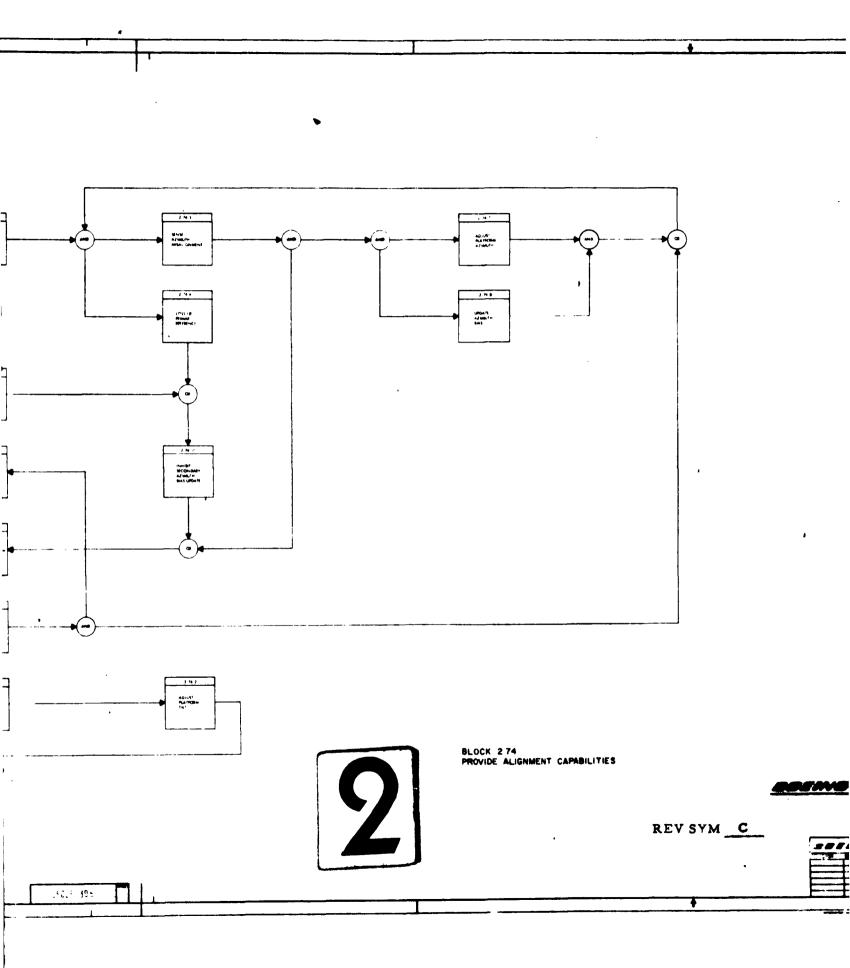
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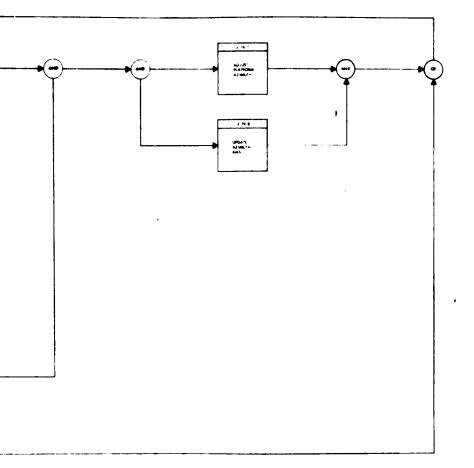


DETAIL SECOND LEVEL FLOW (BLOCK 2.73 PERFORM MESSAGE) RECOGNITION LAI 2.72.1 2,72,2 2,73,6 2,72.3 REV SYM C BOSING BOEING DRAWING PR









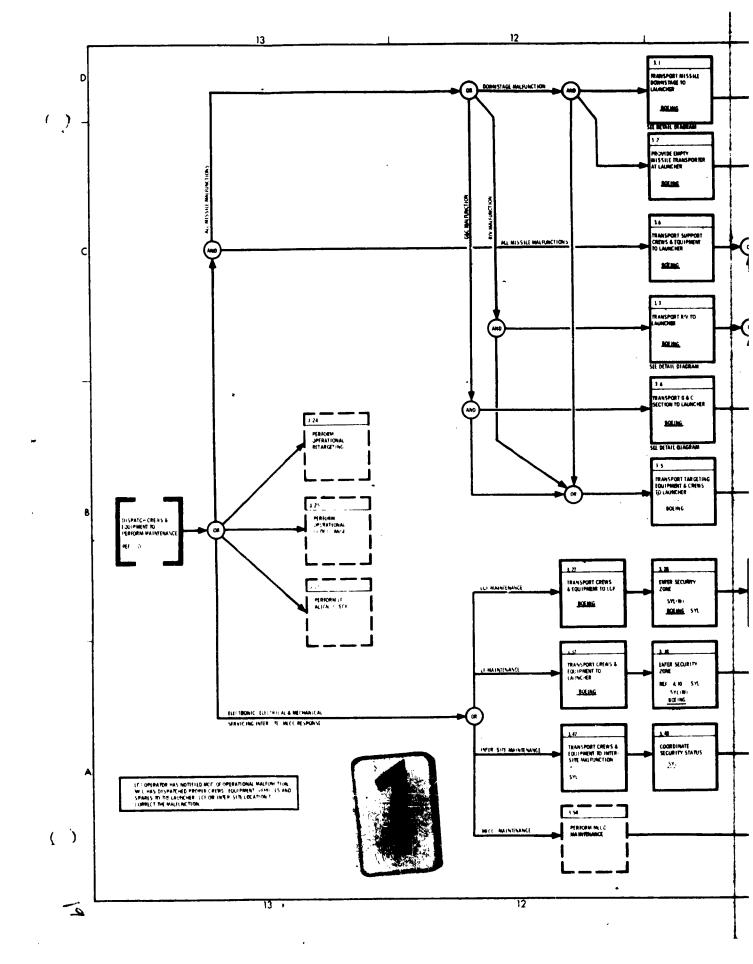


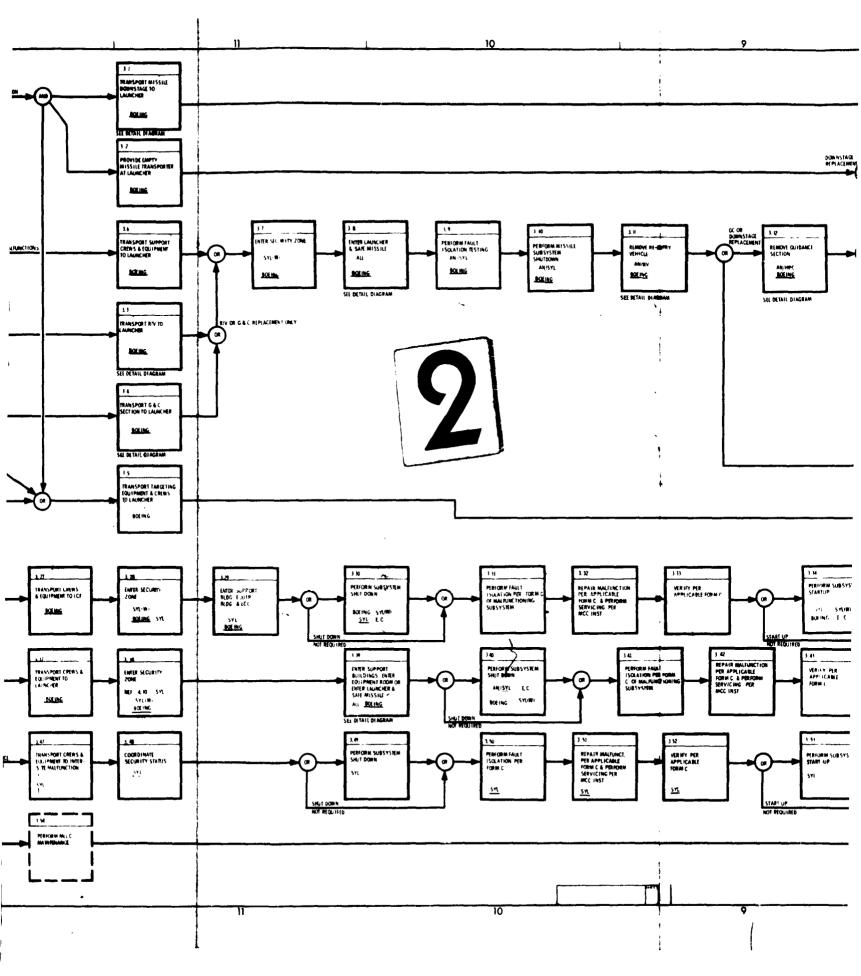
BLOCK 2 74 PROVIDE ALIGNMENT CAPABILITIES

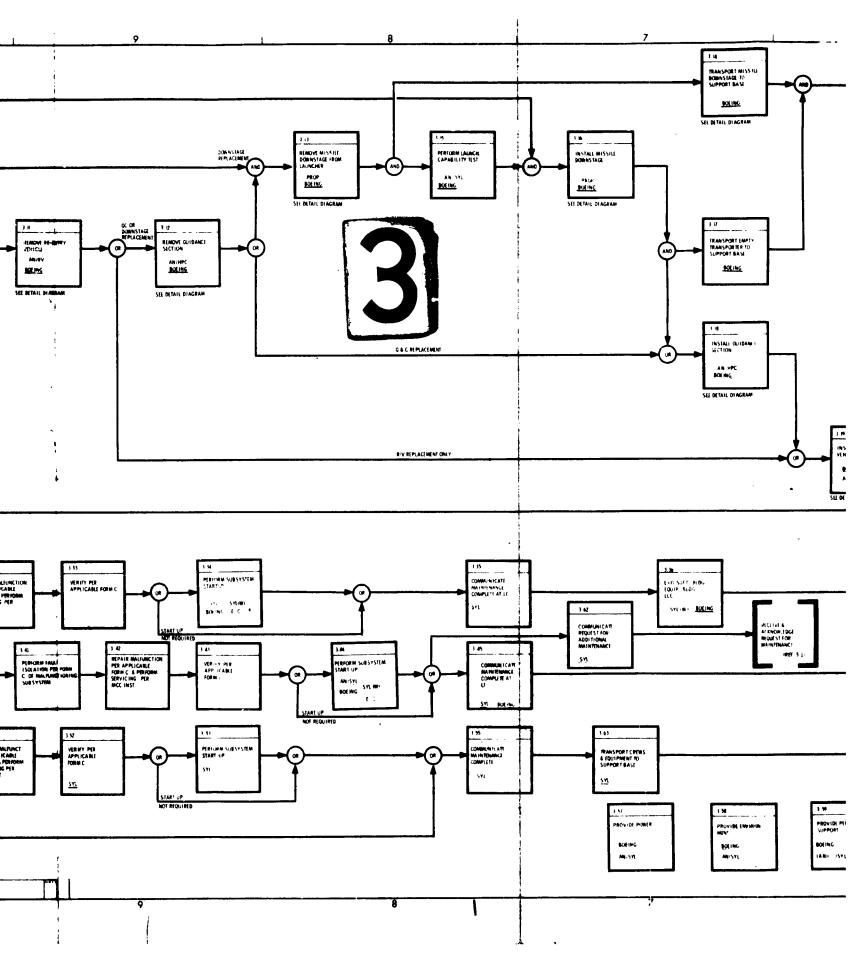
> | NOD2-30044-1B | SEC. IV | MGE 32

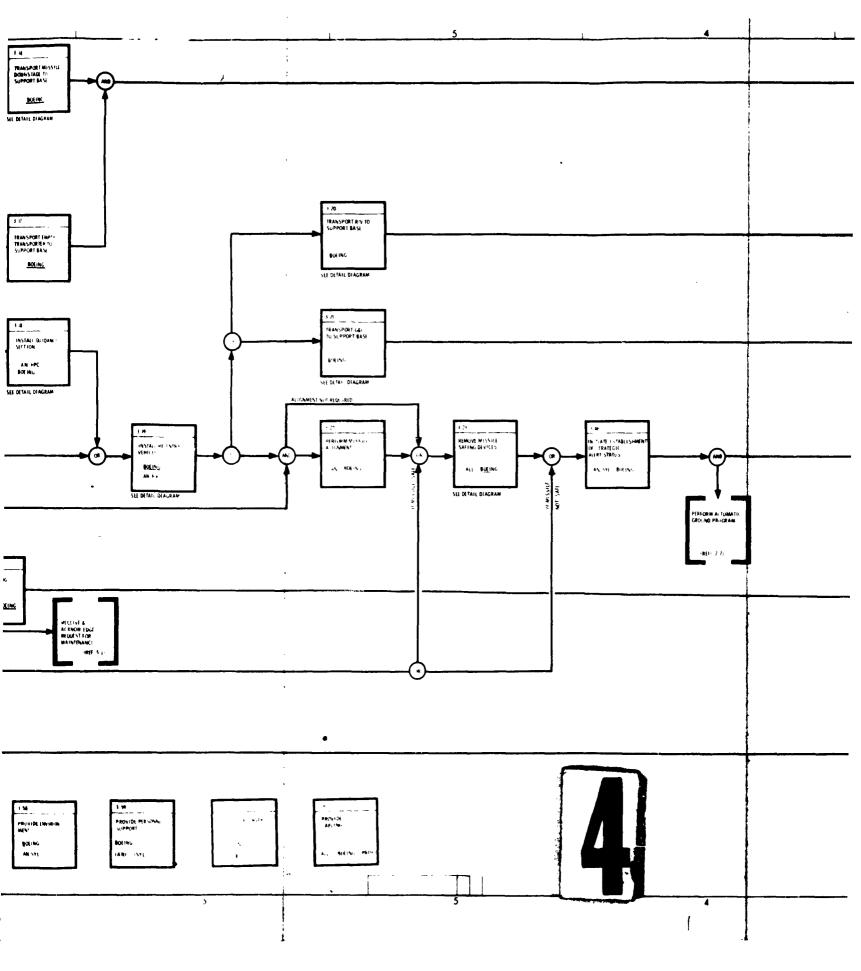
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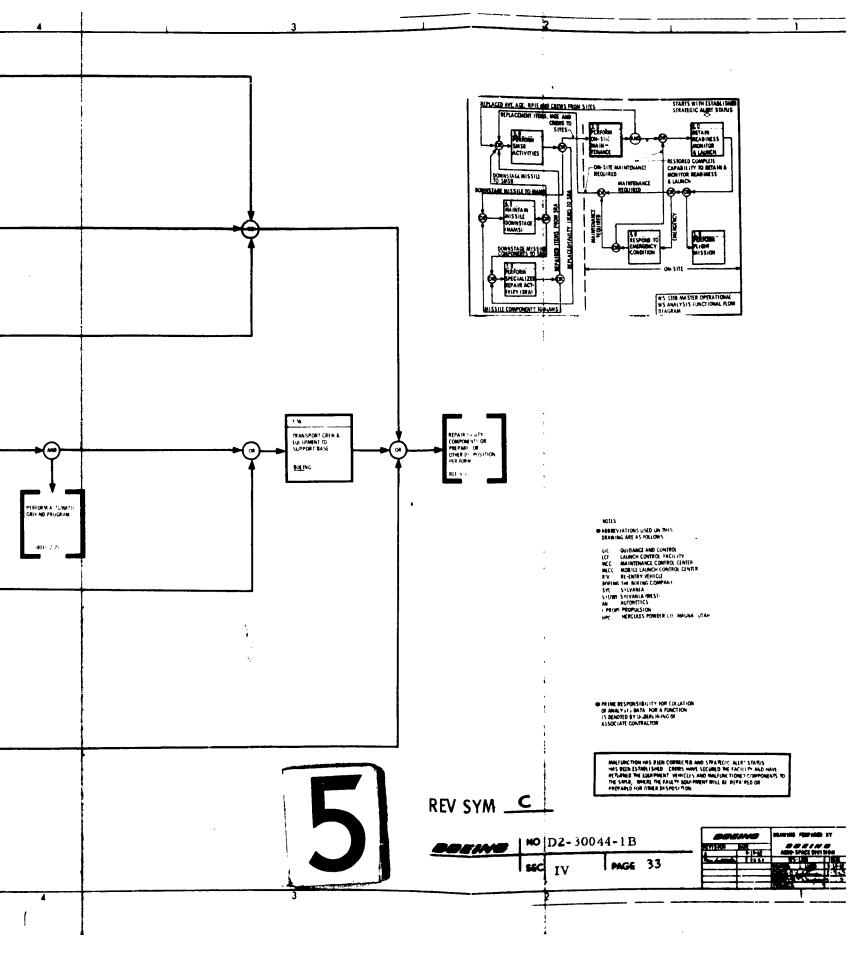


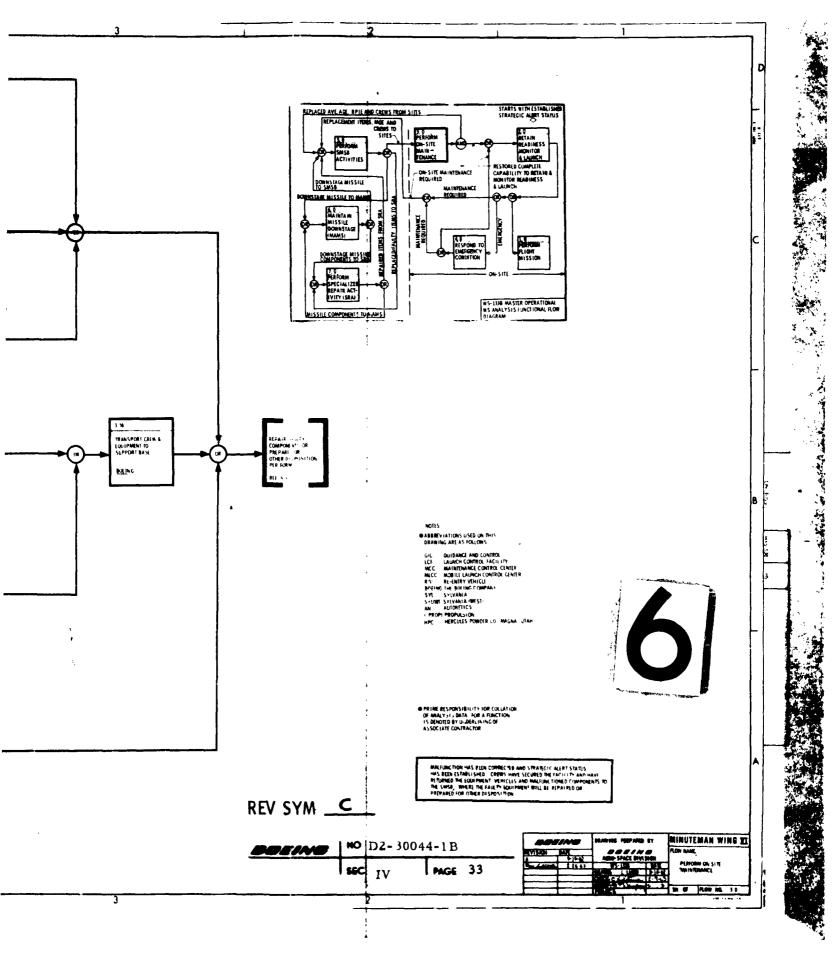












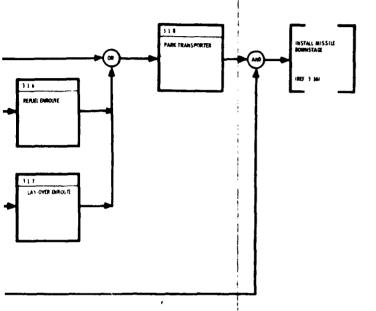
318 BISPATCH CREWS & EQUIPMENT TO PERFORM MAINTENANCE DRIVE MISSILE TRANSPORTER TO LAUNCHER INSTALL MISSI BOWNSTAGE PARK TRANSPORTER IREF 5 0) 3.1.4 312 PROVIDE MISSILE TRANSPORTER 117 LAY-OVER DIROUTS 313 PROVIDE PRIME MOVE 314 PROVIDE FOR DYNAMIC & ENVIRONMENTAL PROTECTION DURING TRANSPORT 315 PROVIDE SUPPLEMENTARY SUPPORT FOR MISSILE TRANSPORT

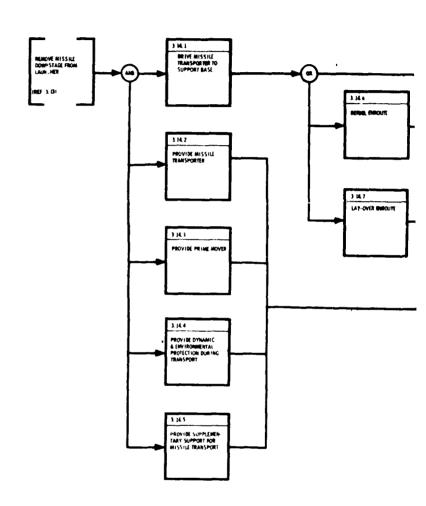


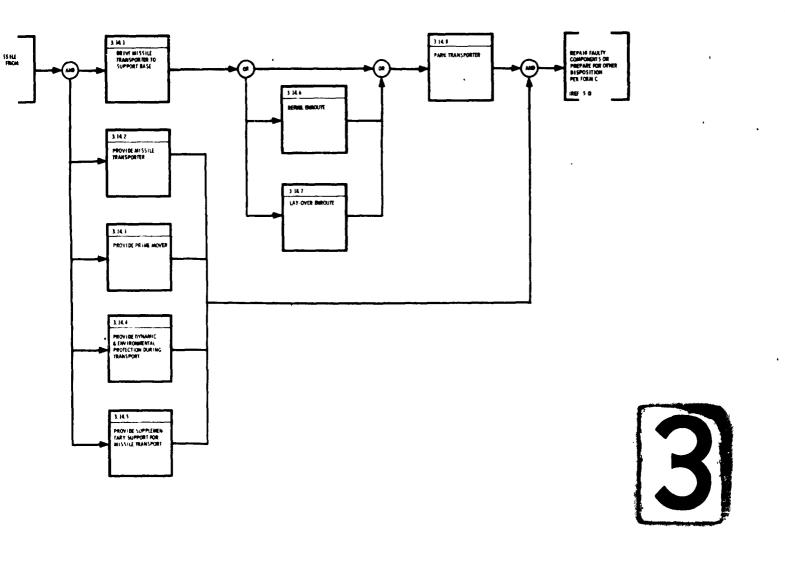
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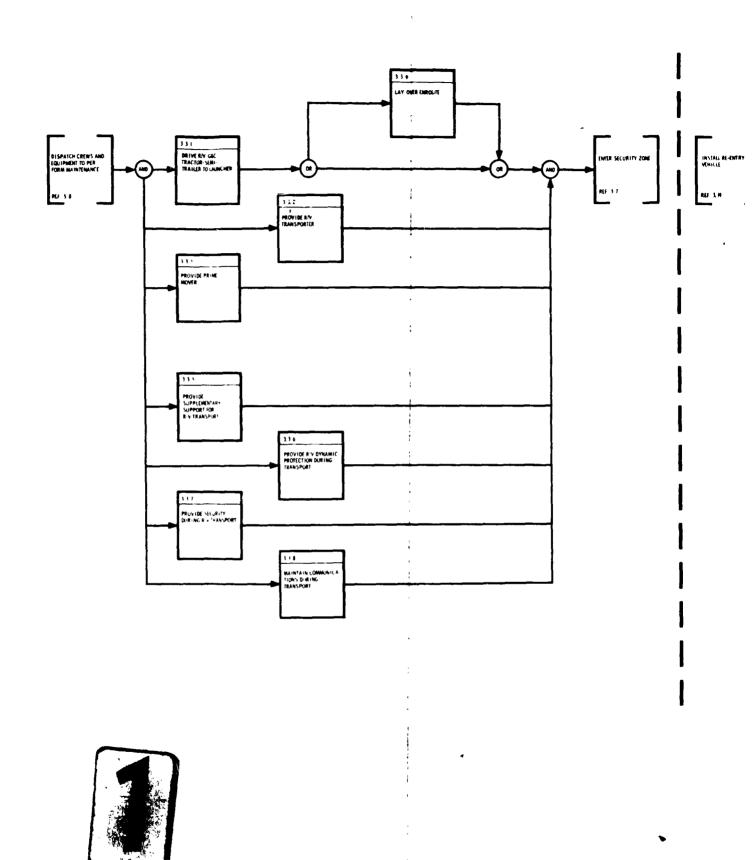


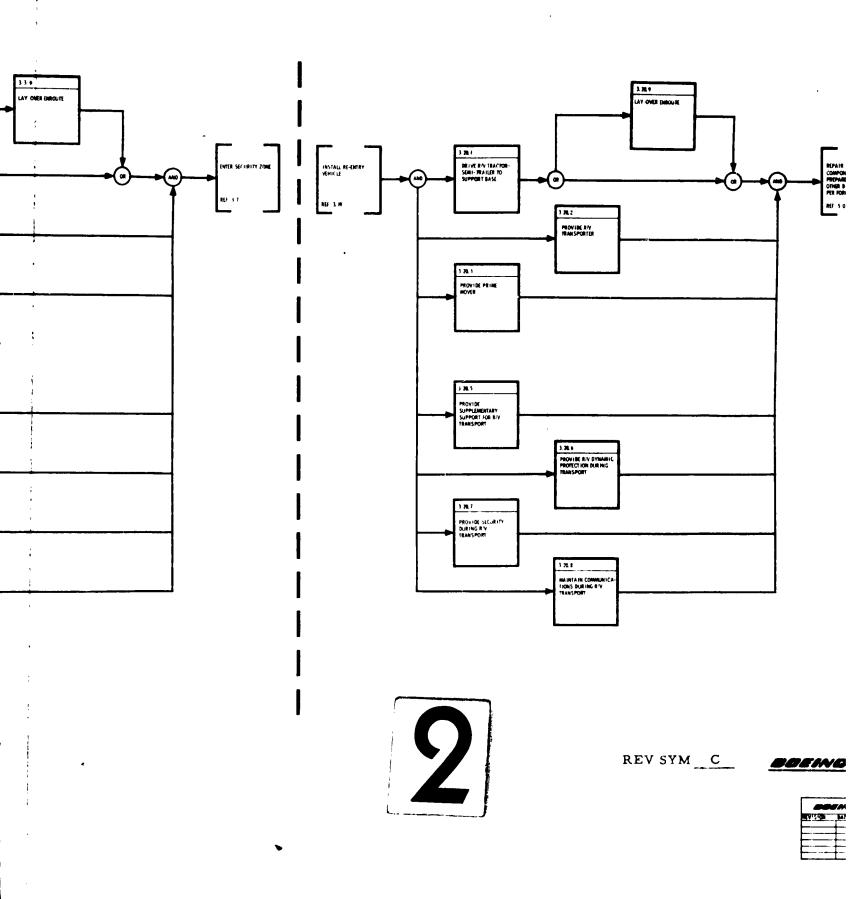


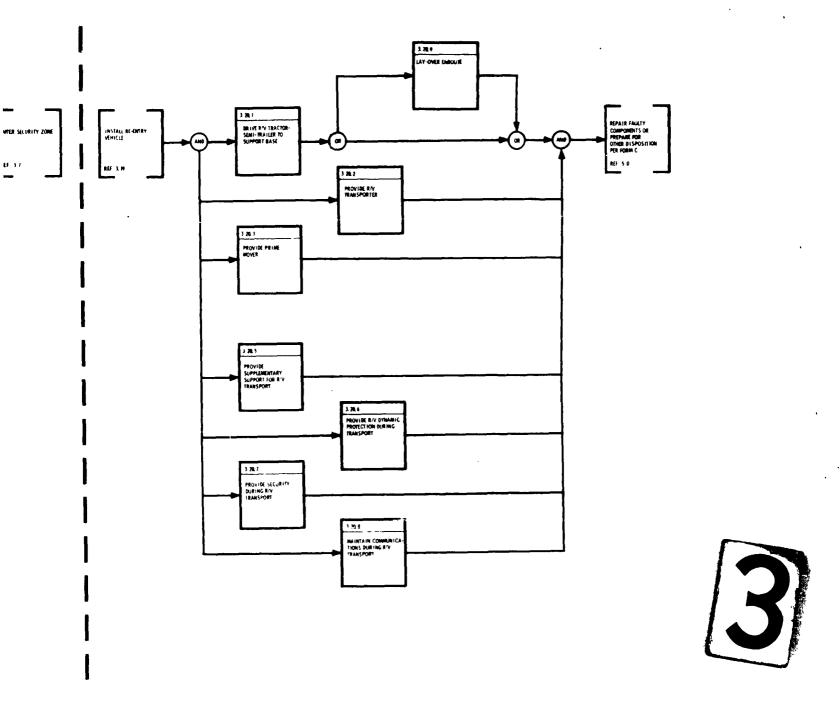


REV SYM C DECEMB NO D2-30044-1B

BOSINO		MANUAL PREPARED BY		MINUTEMAN WING XX	
MEALZIGN	MIT	AERO-SPACE DIVIS	3	FLOW NAME PRANSPORT OF STILE DOWNSTAGE	
	+	THE RESERVE TO THE RE	HAY.	TO LAMICTE	
	1	100 W.	is Support Base is 14		
	7.41	1	SH OF	PLOW NO. 3 1 6 3 16	







REV SYM C

SEC. IV

PAGE 35

WINUTEMAN WING IT

AUTO STACE 195-3 CON

GRAPH OF THE PART OF THE TO SUPPORT BASE

THAT STACE 195-3 CON

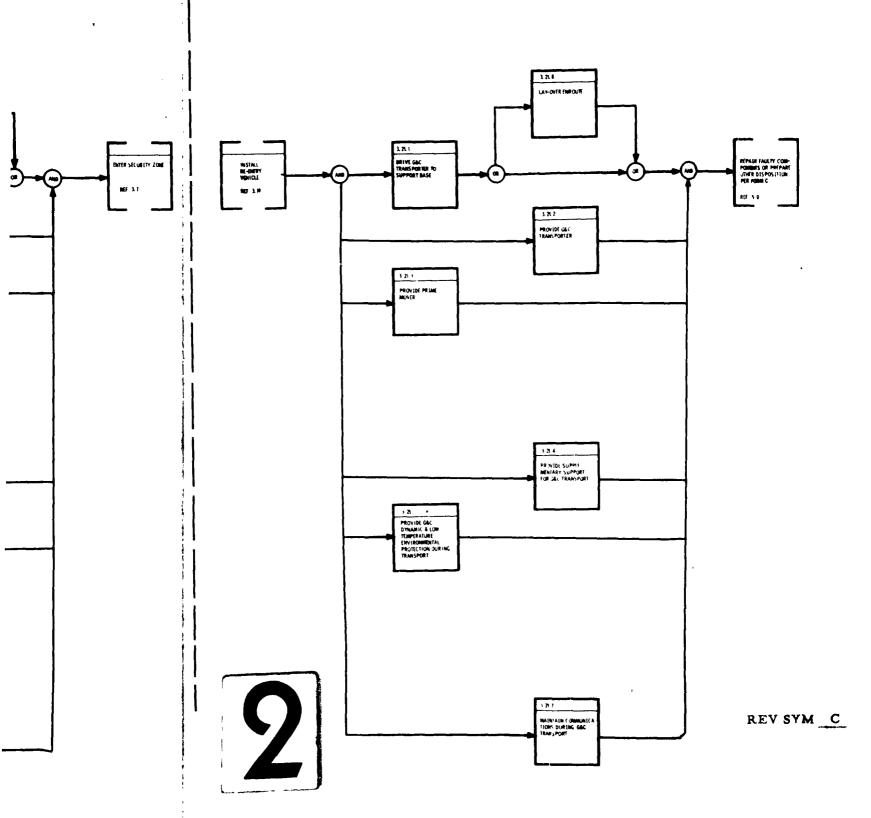
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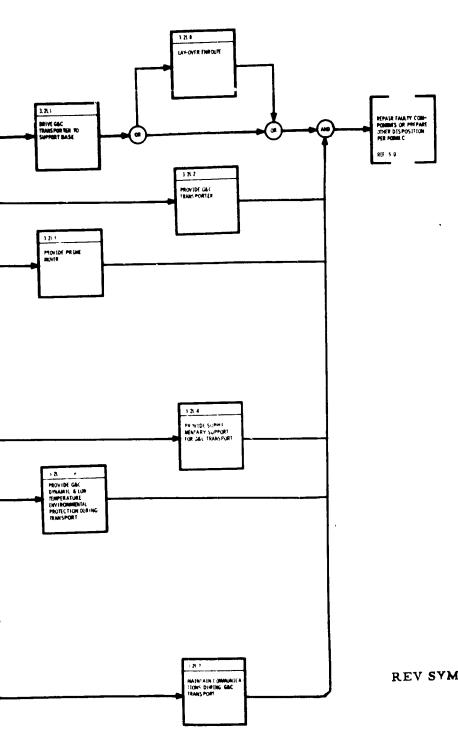
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THAT SPACE 195-3 CON

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SH OF FLOW NO. 3 36 3 20



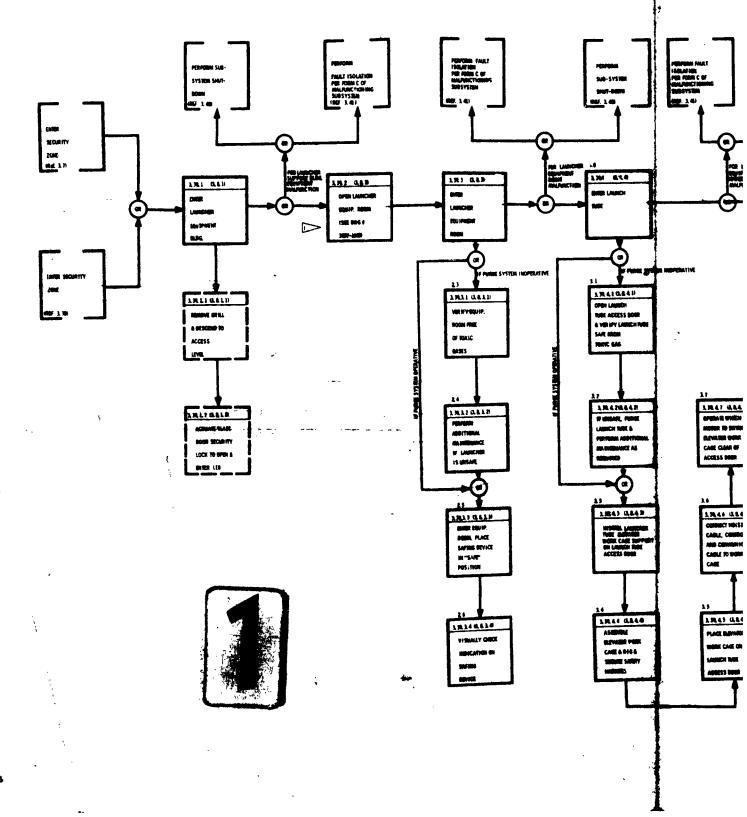




REV SYM C

SEC. IV MGE 36

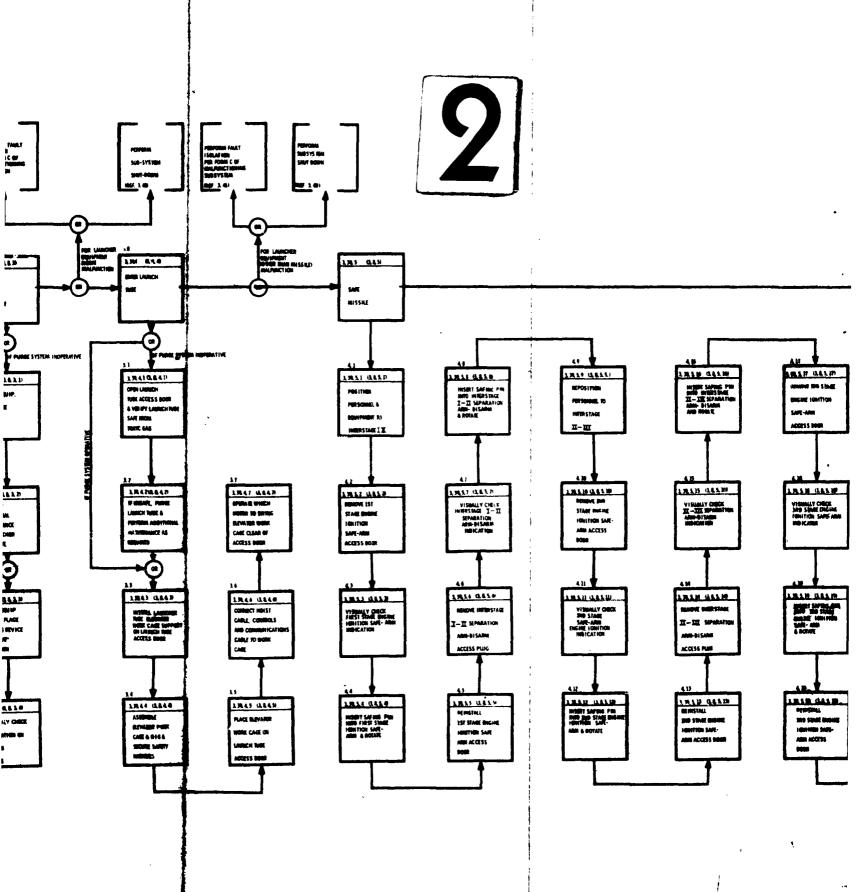
BOOMS	BRANING PREPARED BY	MINUTEMAN WING II
MENTS INTE		FLOR NAME.
	ADD-SPACE BYVISION	TRANSPORT DEC SECTION TO
	F44	LAMBICHER 13. 4
		TRANSPORT GSC TO SUPPORT
	CHECK AND CO	BASE (1, 2)
	(A) (A) (A)	·
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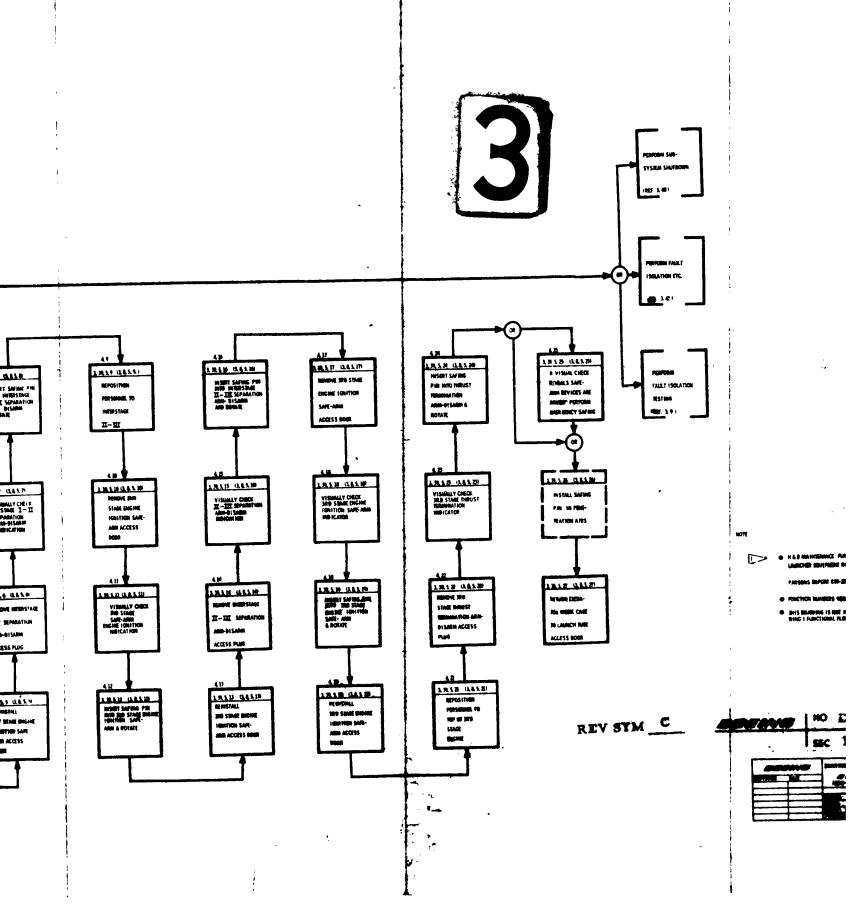


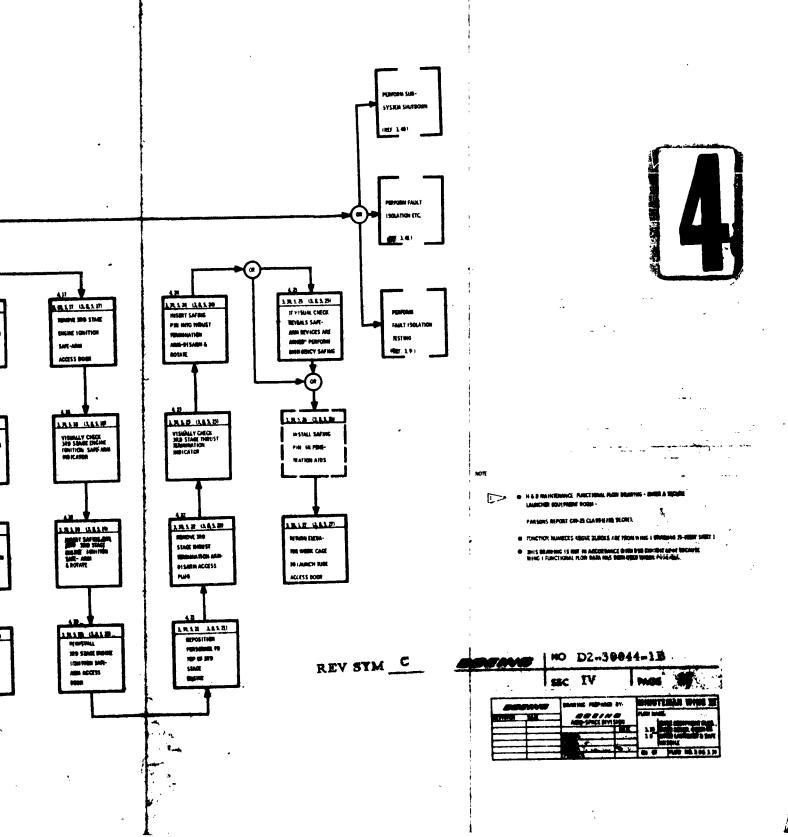
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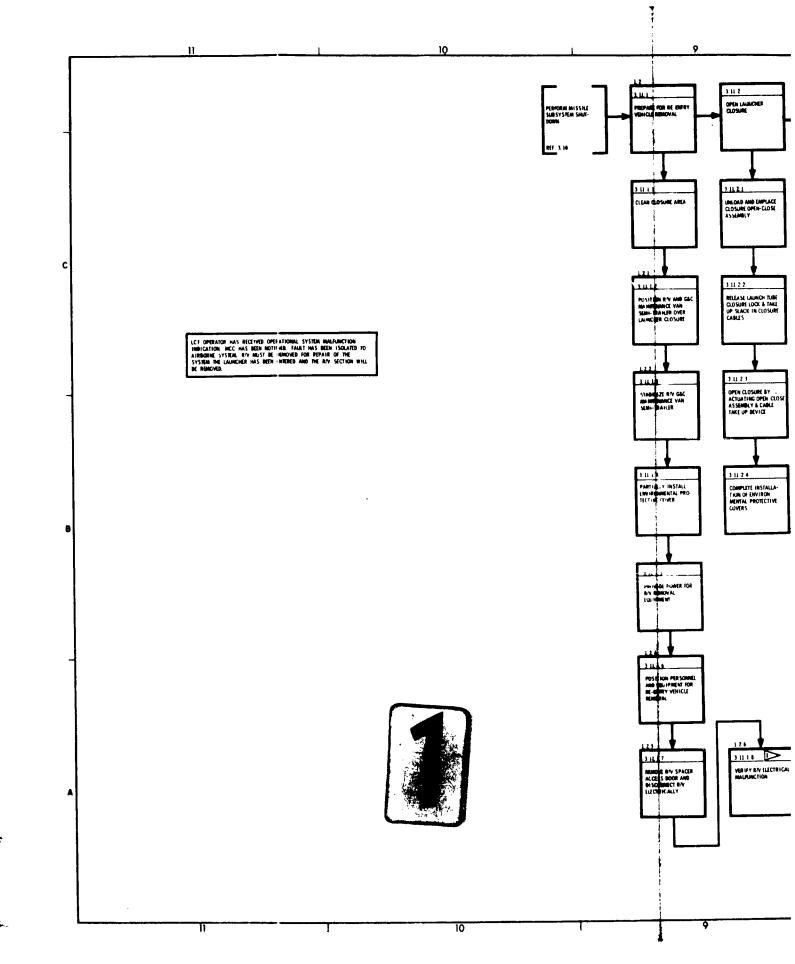
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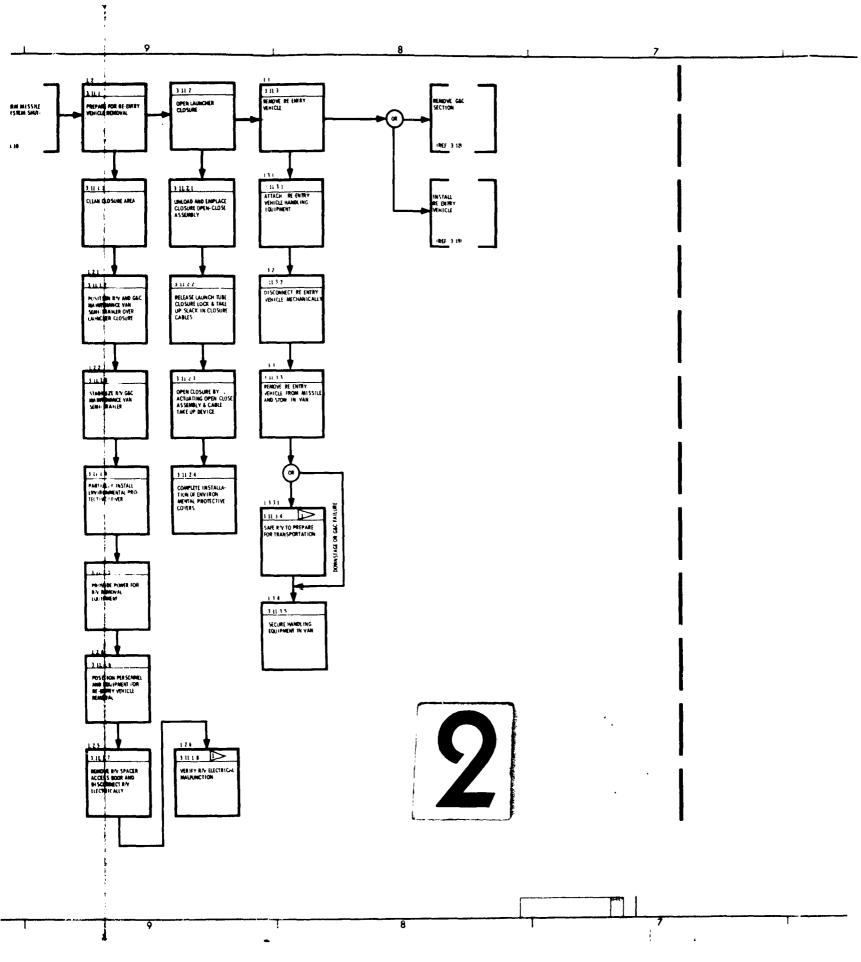


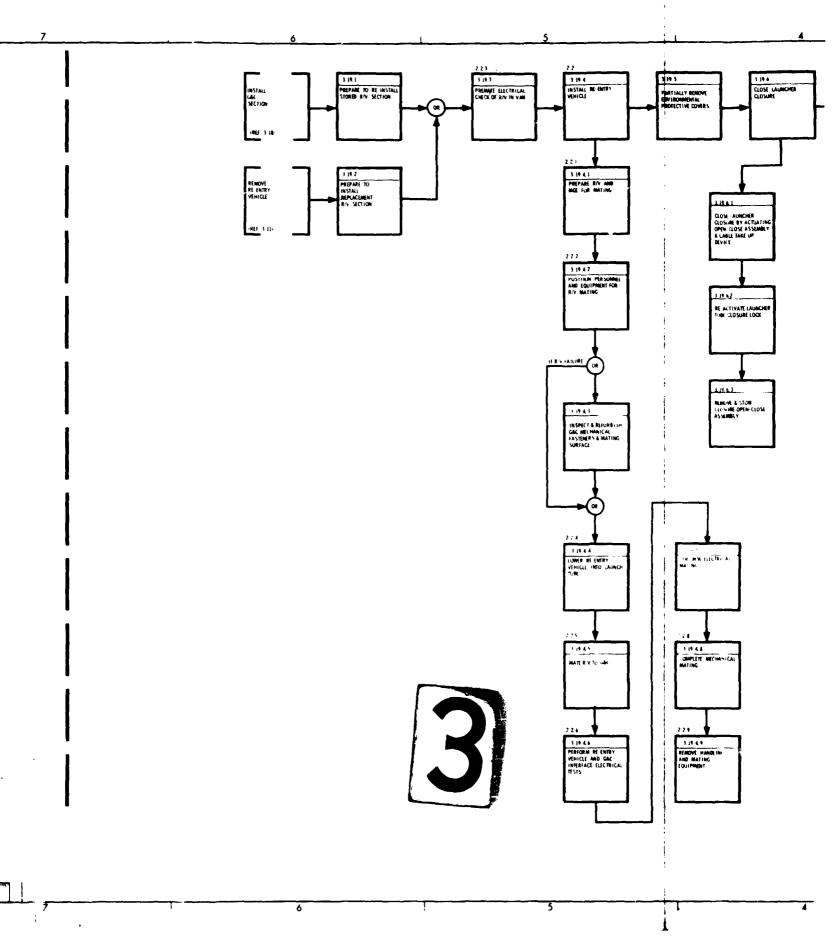


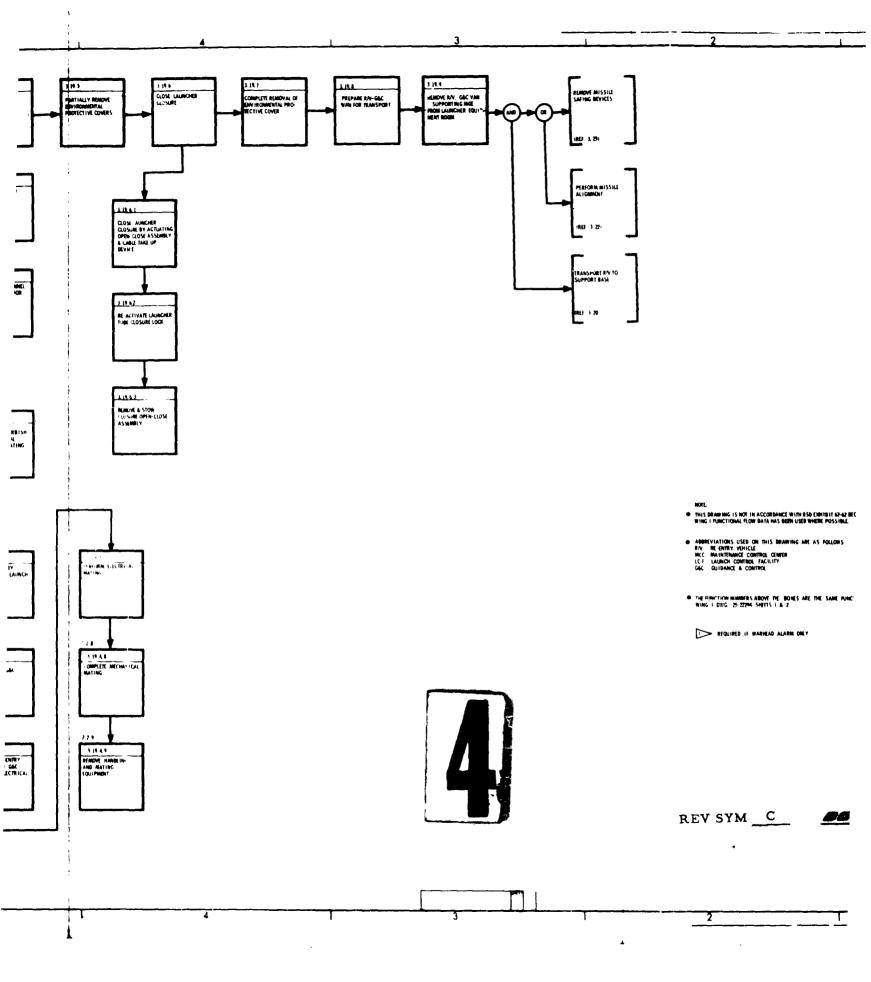


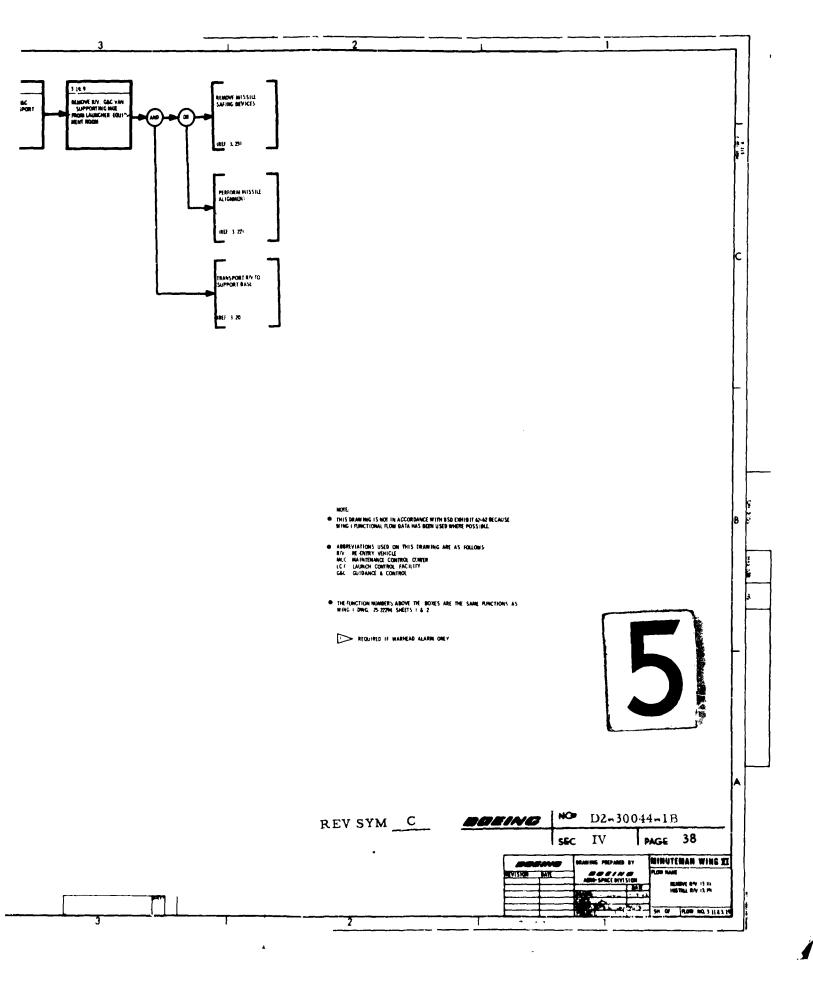


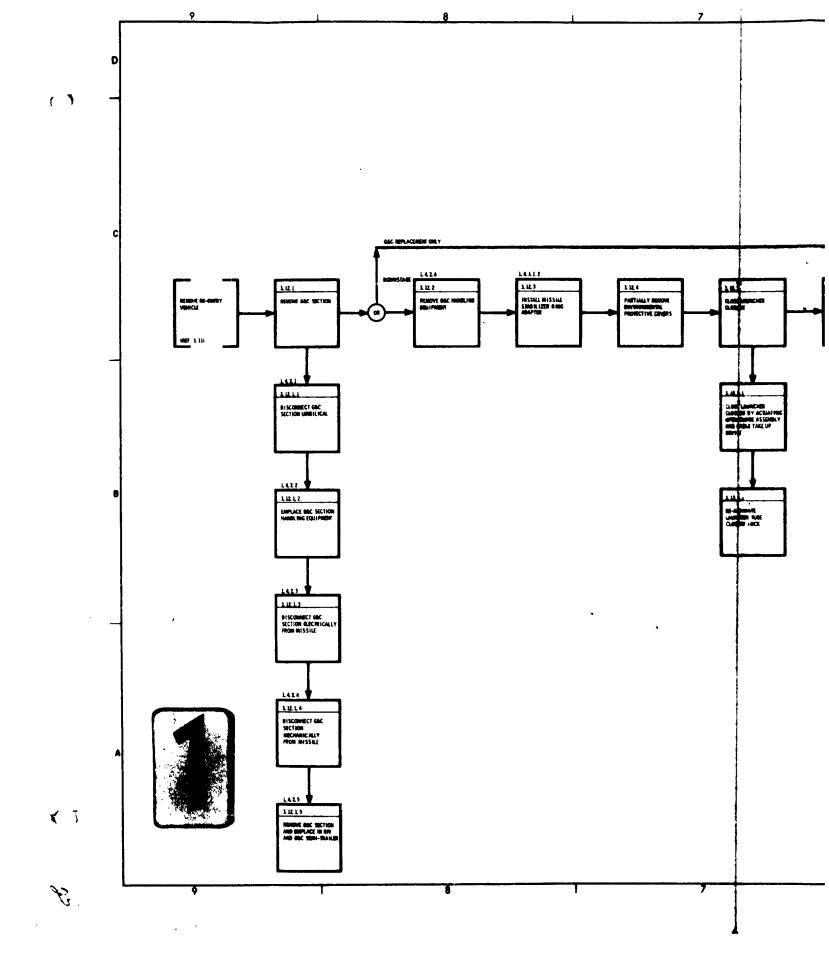
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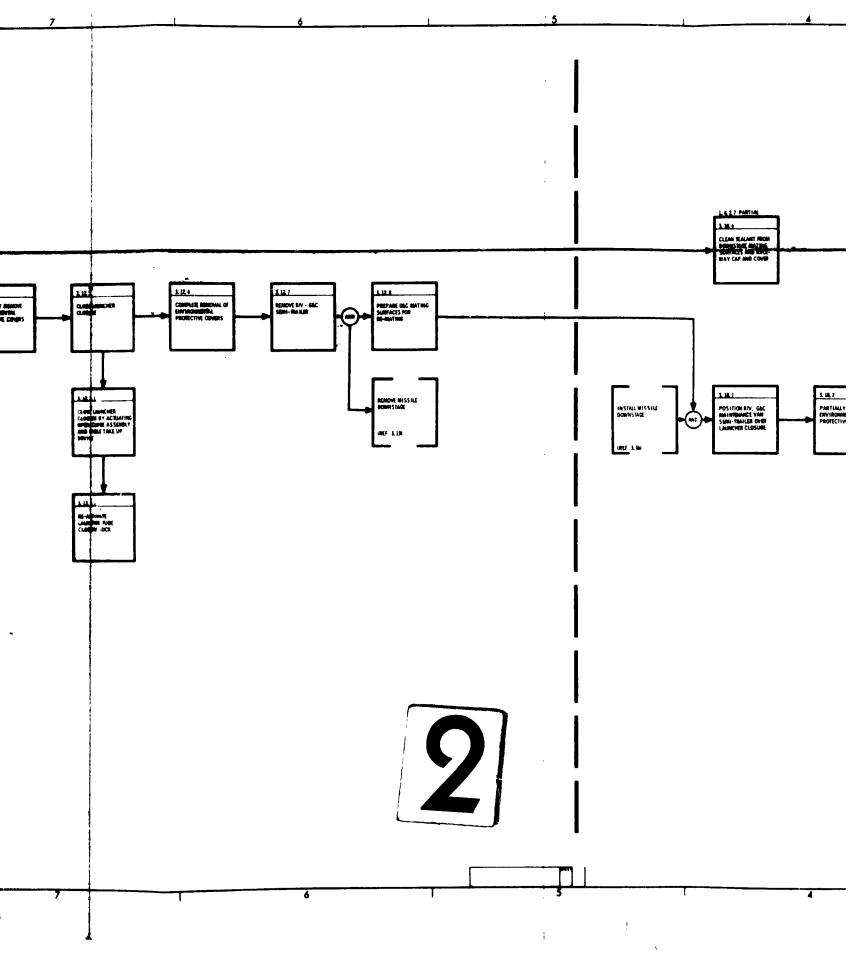


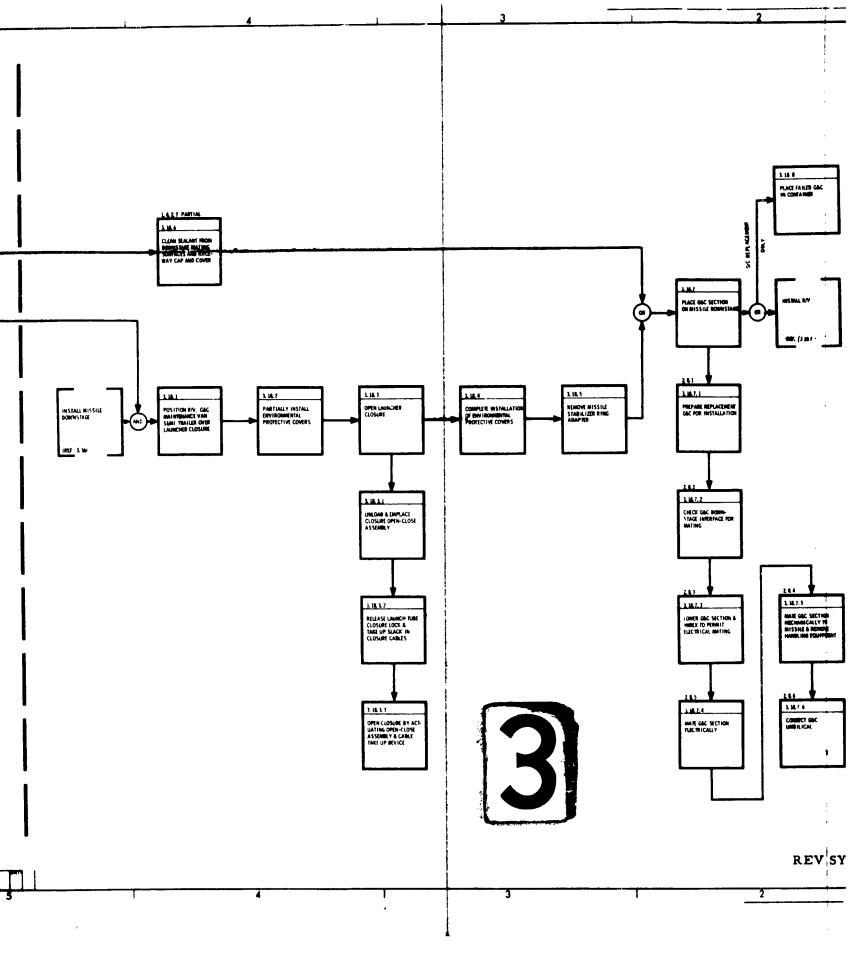


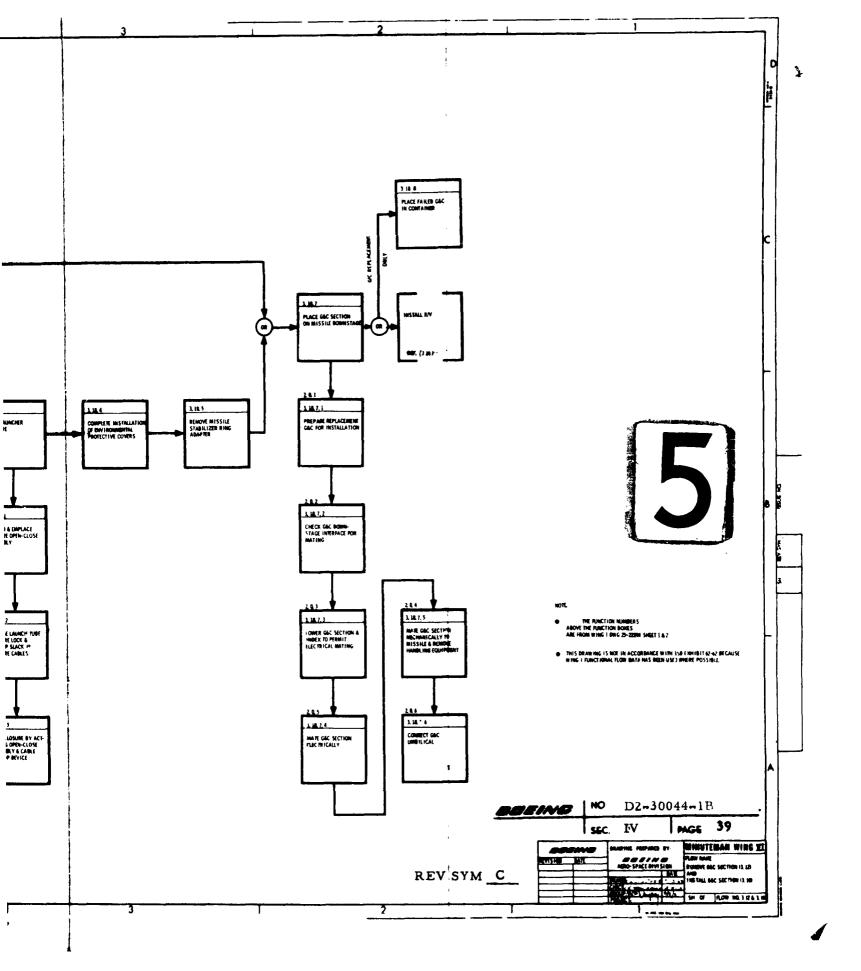


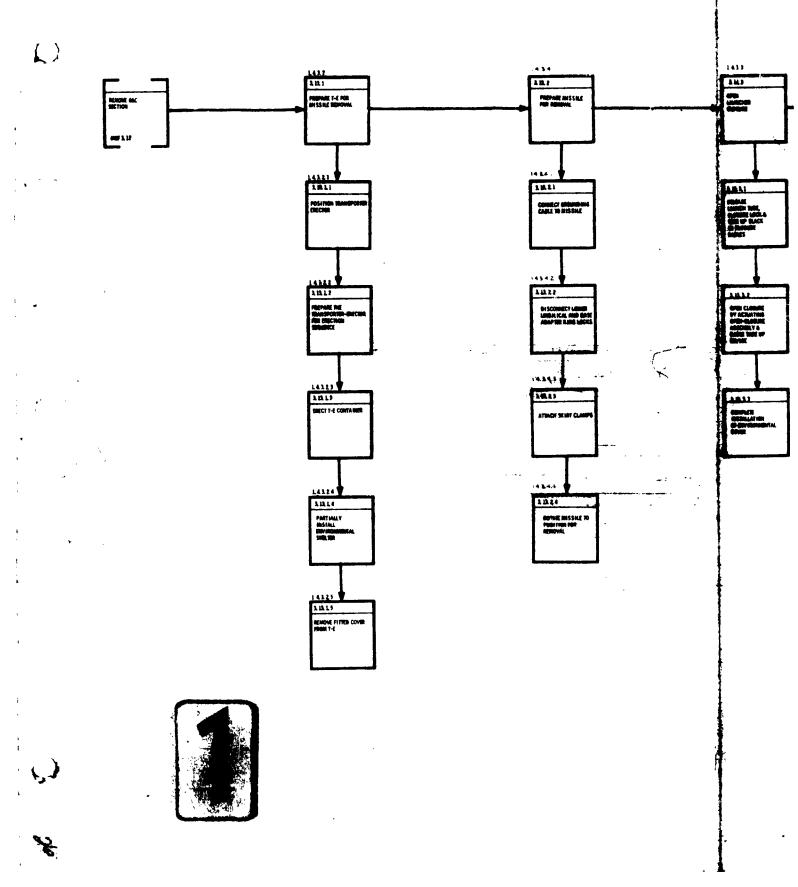


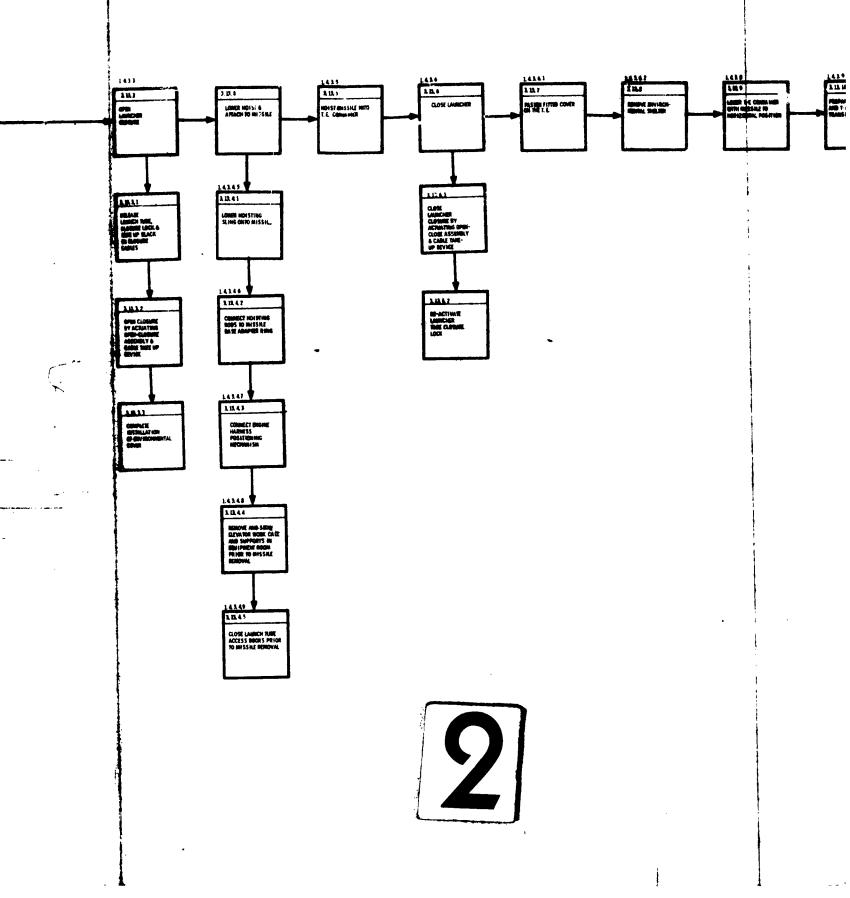


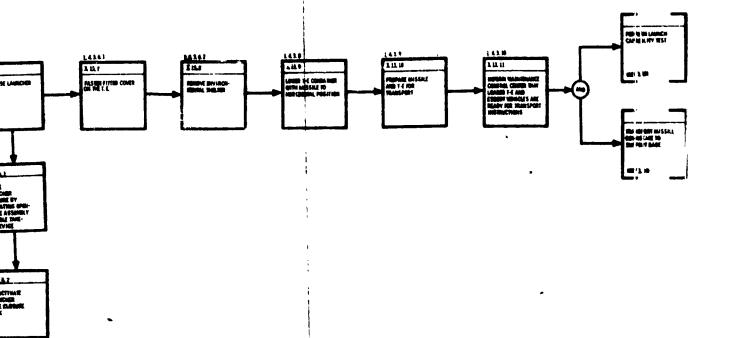












HERE, THE MARKET ABOVE THE AMERICA THE SHARES SHEETS 2 AND 2

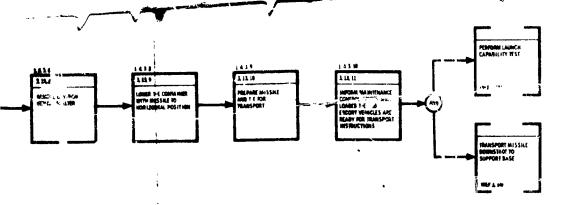
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AGREVIATION

14 - Iguargina-men

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REV SYM	1.100	W2986	
المنتقربة	950	. 17	



NOTE:
THE RUMBERS ABOVE THE PUNCTION OBIES ARE FROM WHOSE-I
WAY 25-22004. SHEETS I AND 2

THIS BRANDING IS NOT IN ACCORDANCE WHIN 950 EXPRINT UP-42 DECAUSE WING I PUNCTIONAL FLOW BATA HAS BORN USE; BM TE POSSIBLE.

AMBREVIATIONS.

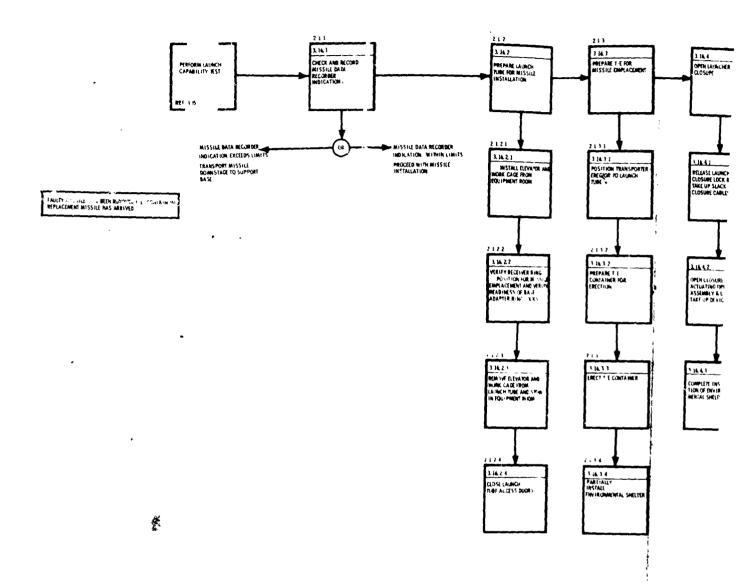
14 - TRANSPORTER-MECTOR

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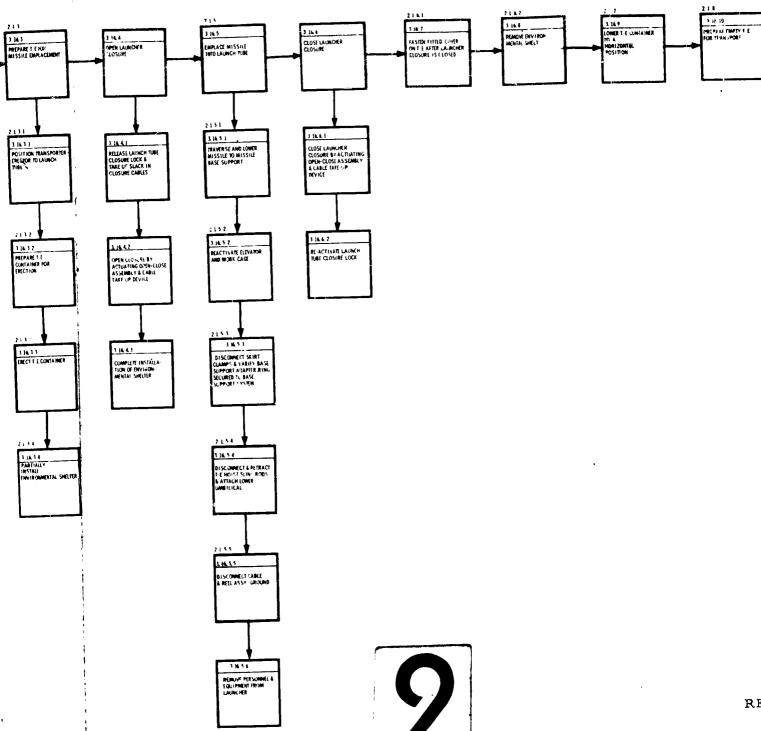
REV SYM 6

SEC TV MAS SP.

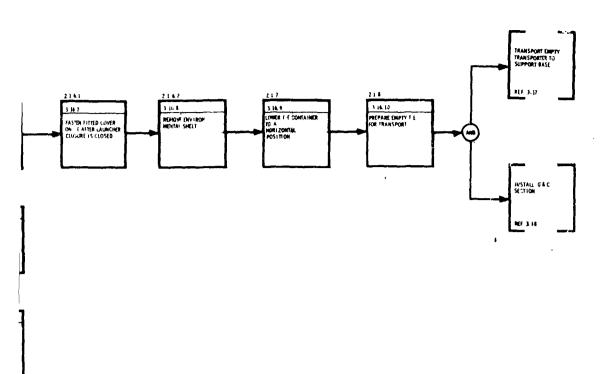
		M SPIN BARYTUSIA
	200100	
		W 0 20 H 13







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INSTALLATION OF REPLACEMENT DOWNSTAGE IS COMPLETE

ABBREVIATIONS

I E TRANSPORTER FRECTOR

MATE

- THE LAYOUT OF THIS DRAWING DOES NOT COMPLY WITH AFRISD EXHIBIT 62-62
- FUNCTION NUMBER ABOVE BOXES ARE FROM WING I DRAWING 25-22294 SHEET 2

REV SYM C

SEC IV

PAGE 41

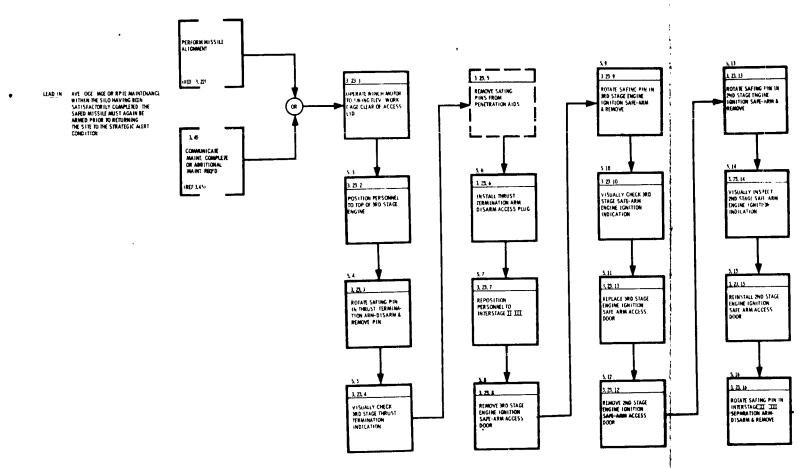
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AND SPACE MYSSICH

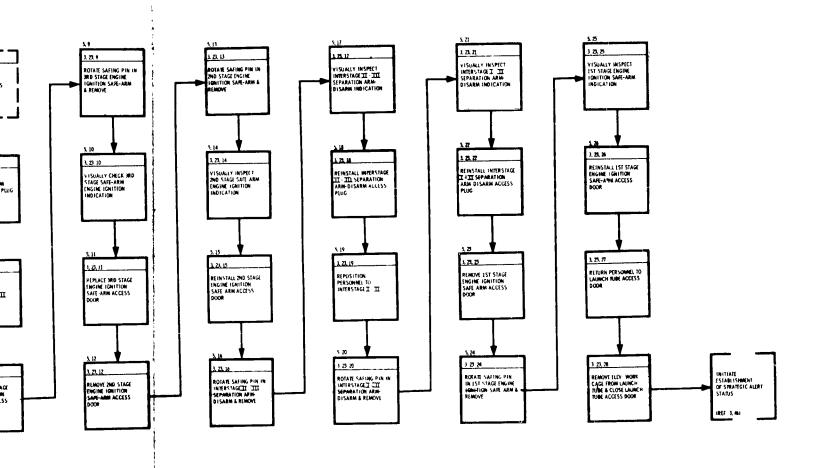
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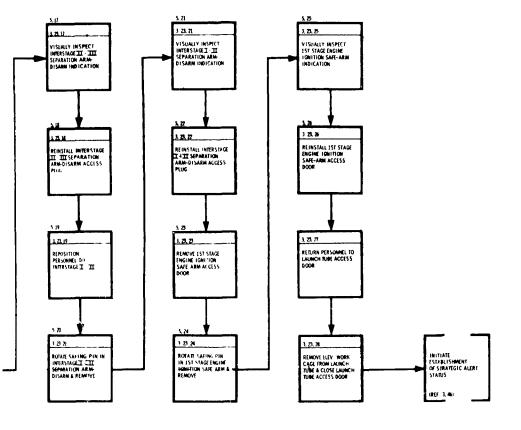


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REV SYM C

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LEAD OUT
THE SILD ACCESS BOOR IS CLOSED AND
THE MAINTENANCE PERSONNEL PROCEED
WITH THE TASK OF READY MICHE SITE
FOR STRATEGIC ALERT AFTER THE MISSILE
HAS AGAIN BETN ARMED

NO

THIS DRAWING IS NOT IN ACCORDANCE WITH BSB EXHIBIT 62-62 BECAUSE WING I FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE

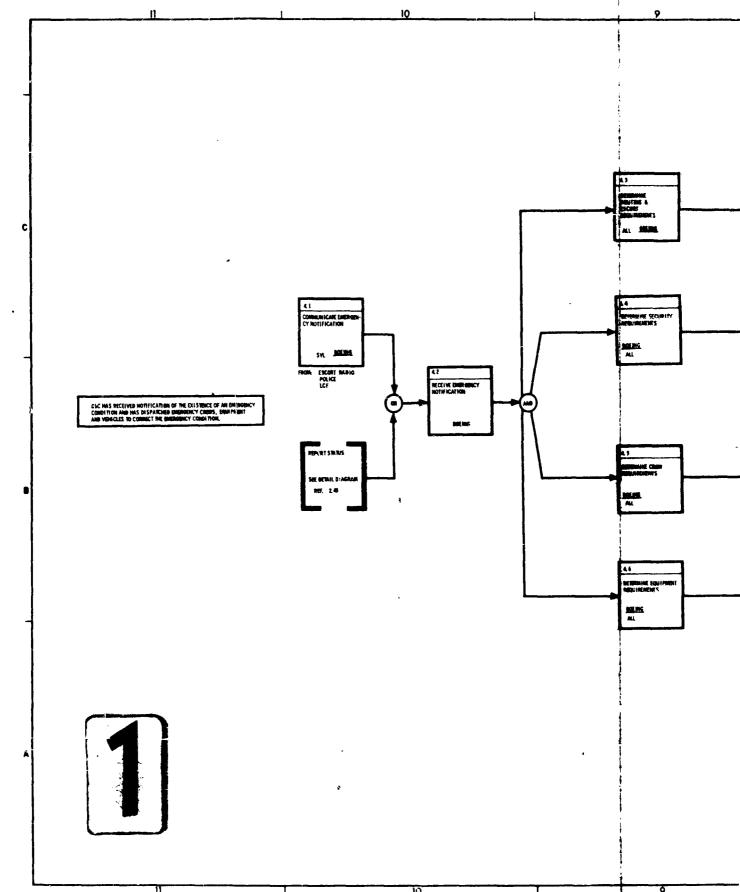
FUNCTION NUMBERS ABOVE BLOCK ARE FROM WING + DRAWING 25-18837 SHEET 1

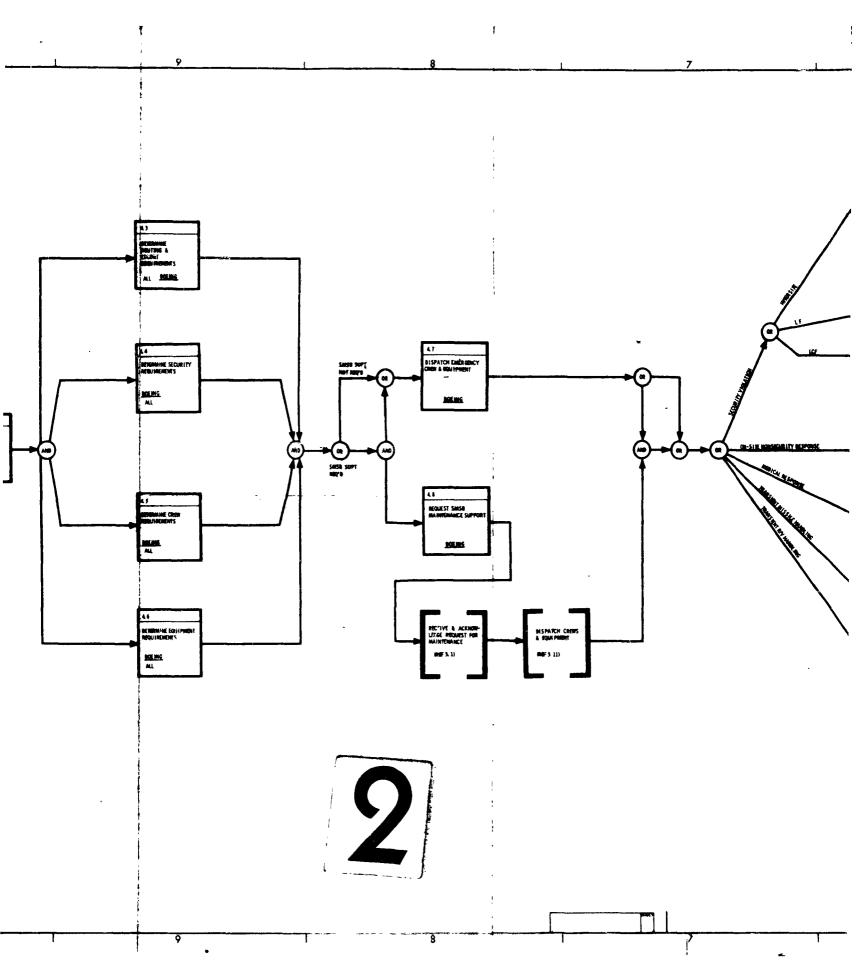
REV SYM C

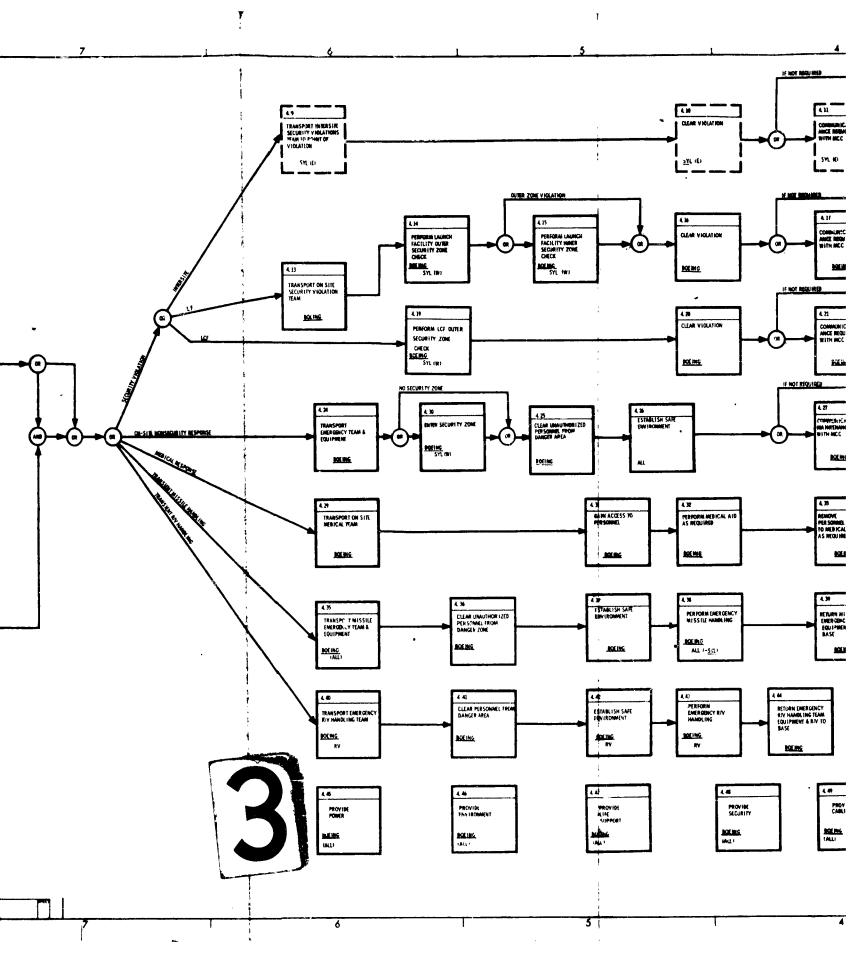
SEC IV

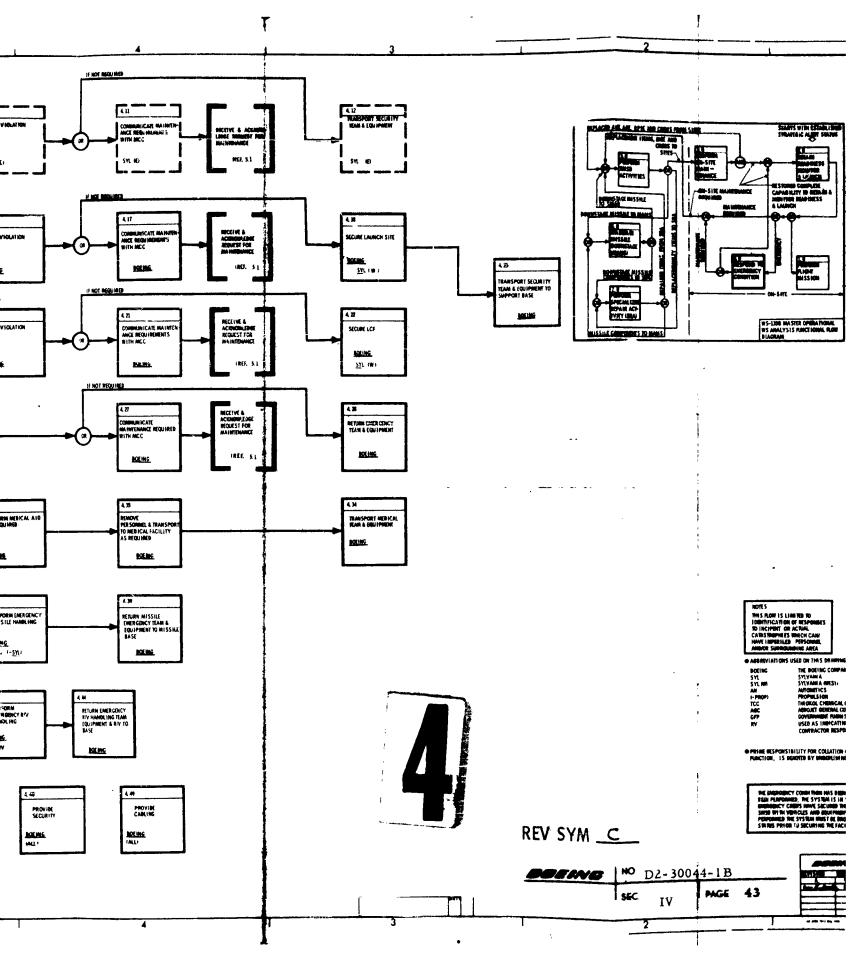
PAGE 42

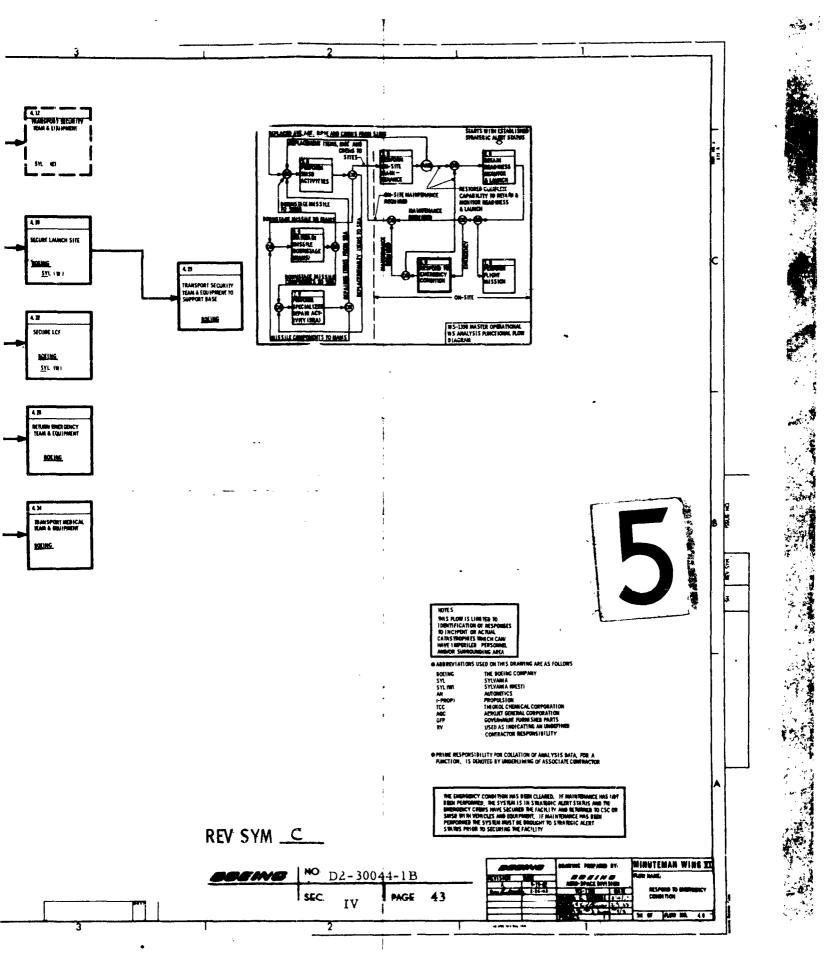
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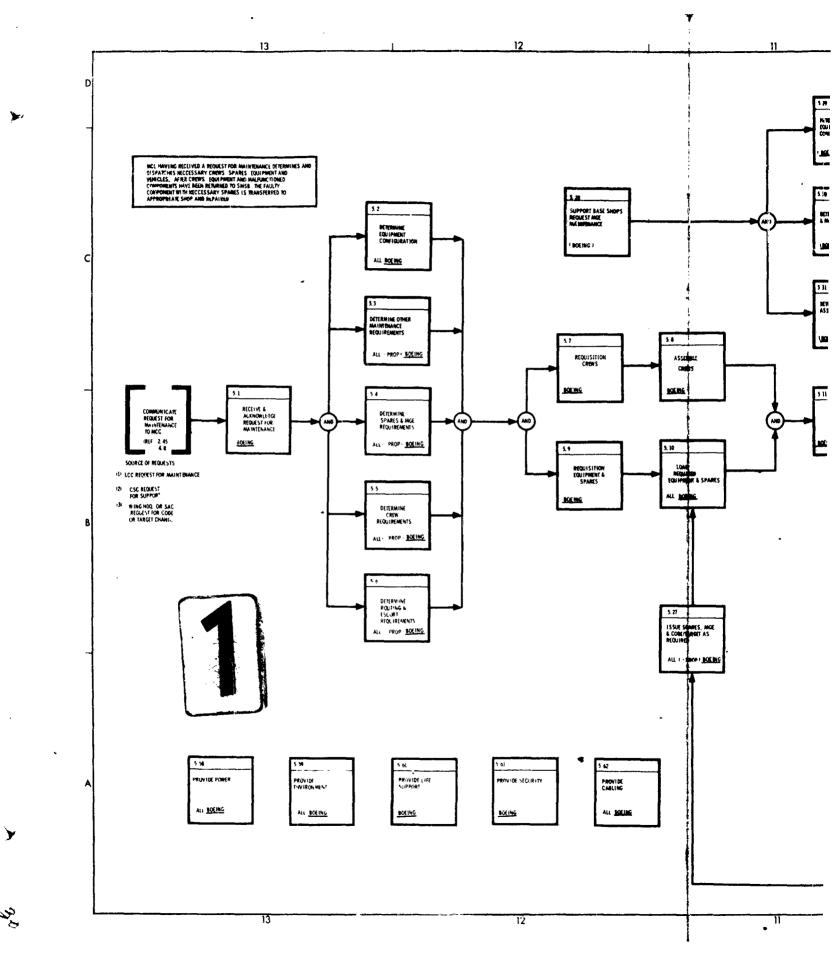


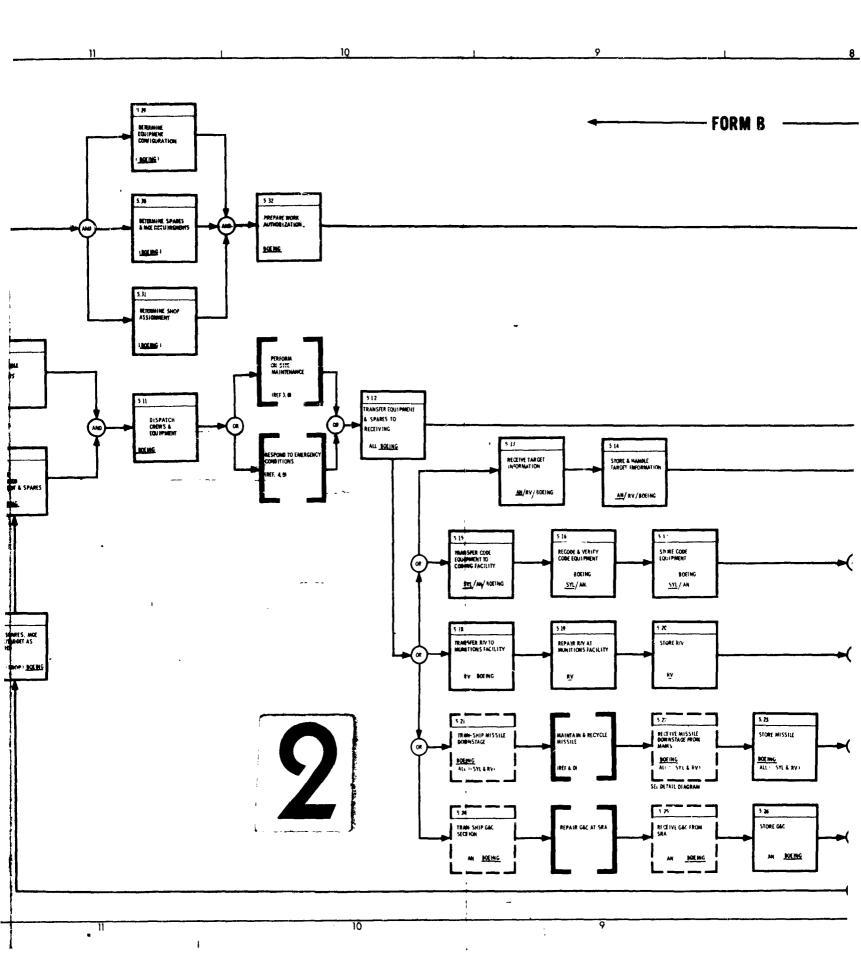


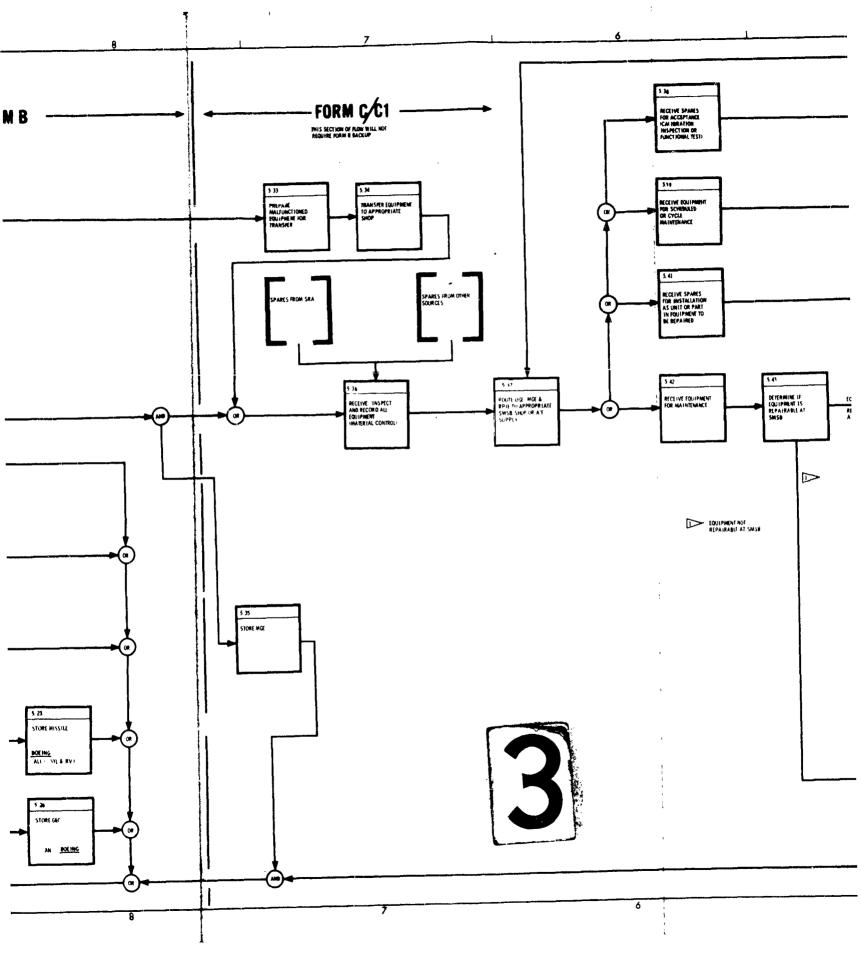


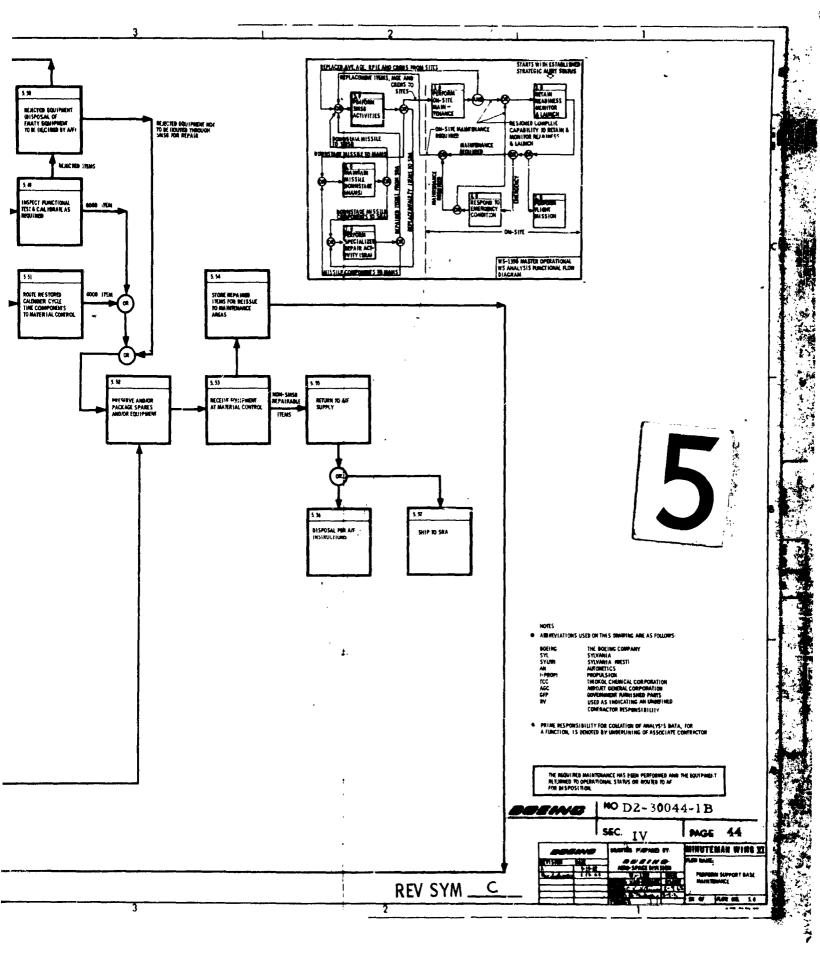








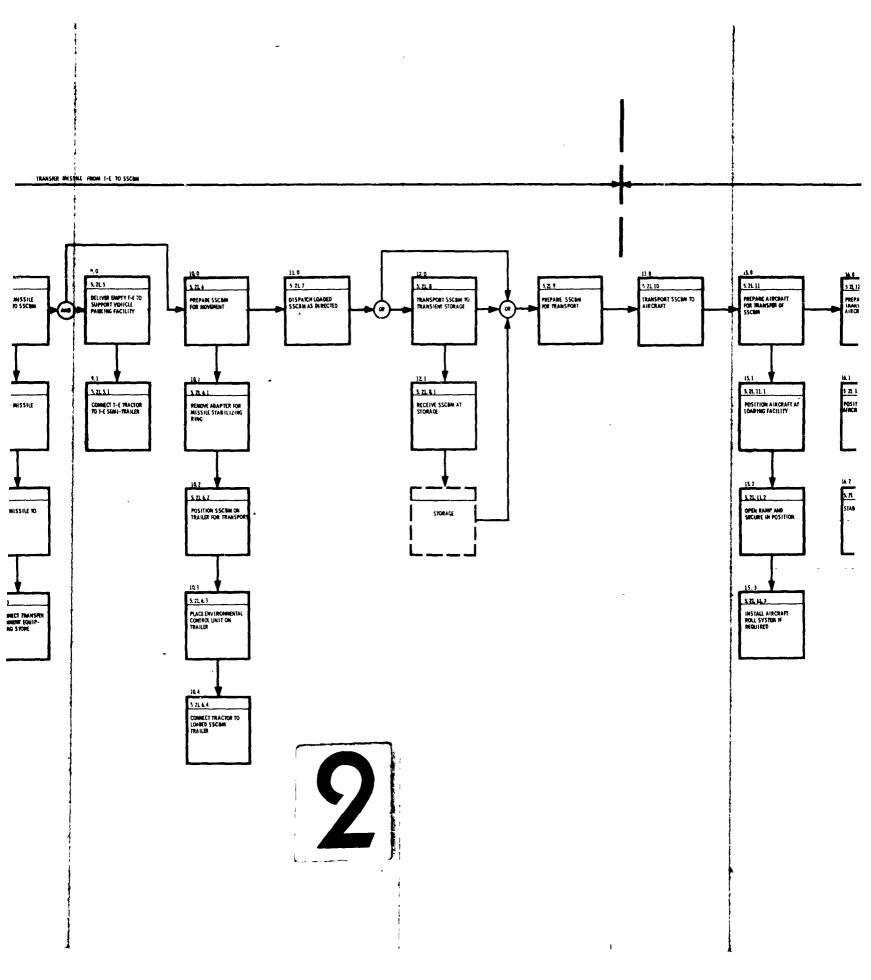


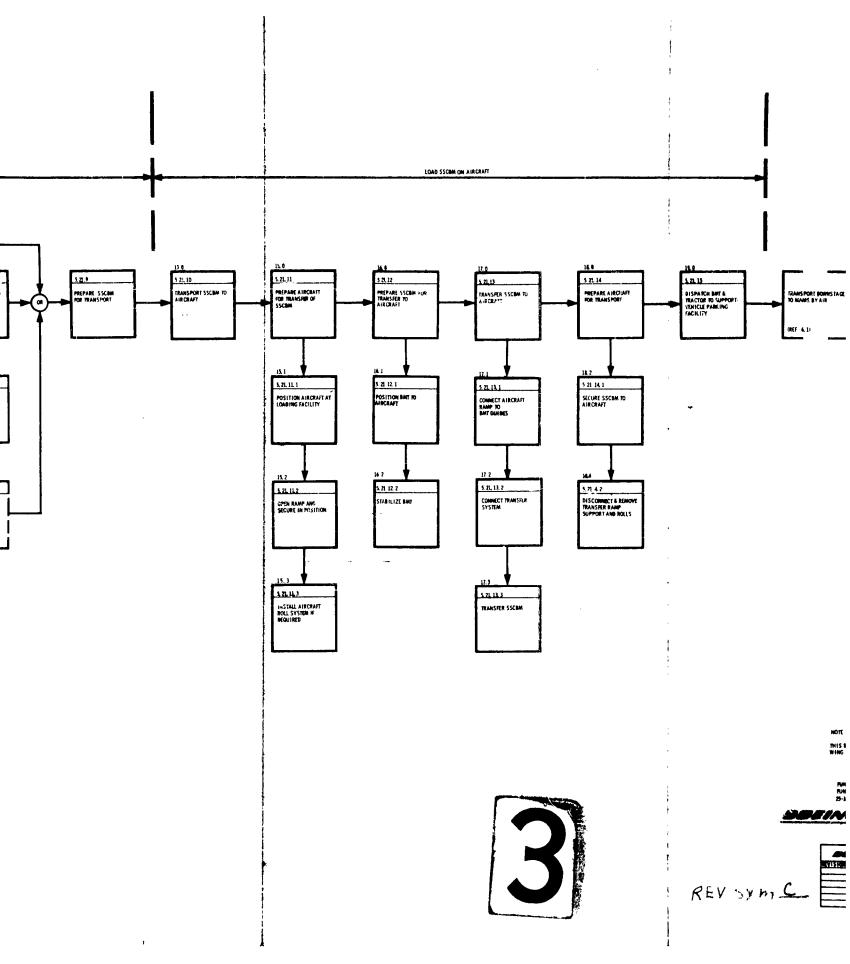


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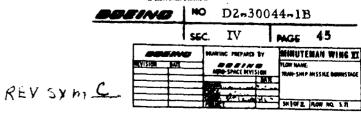


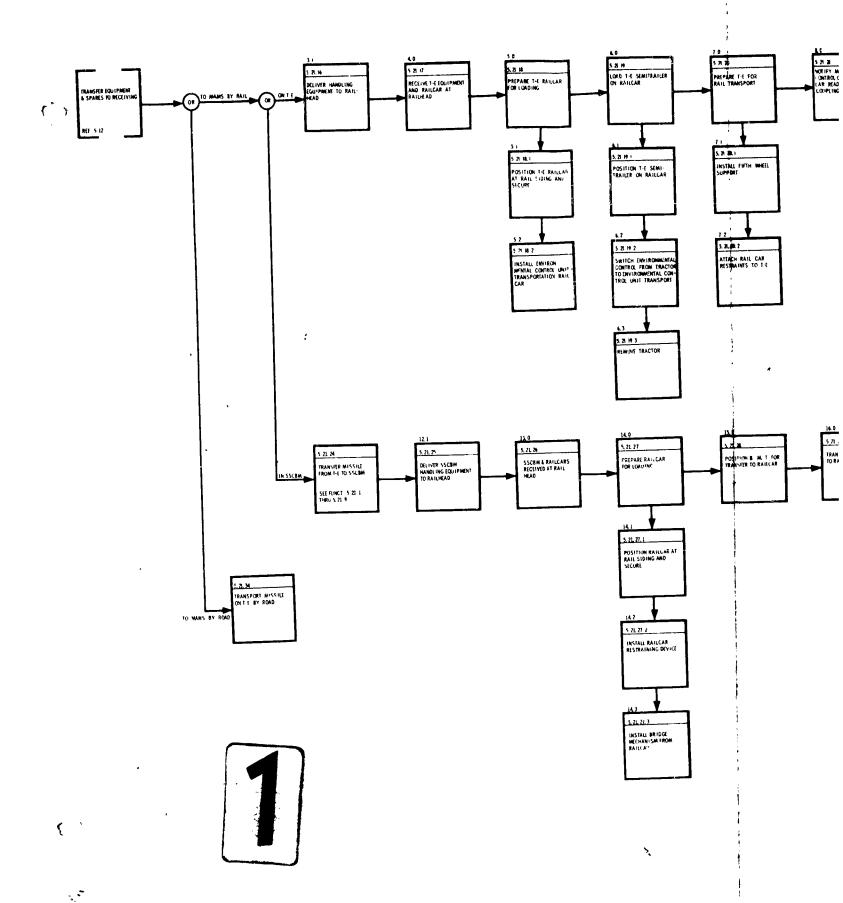


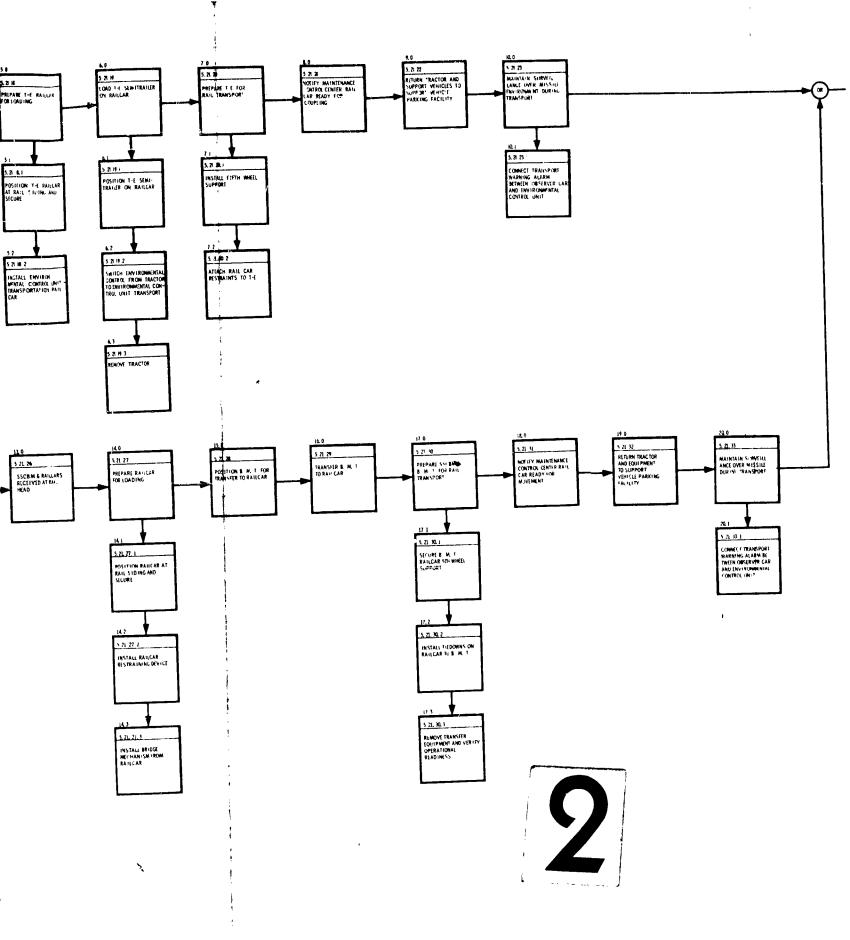


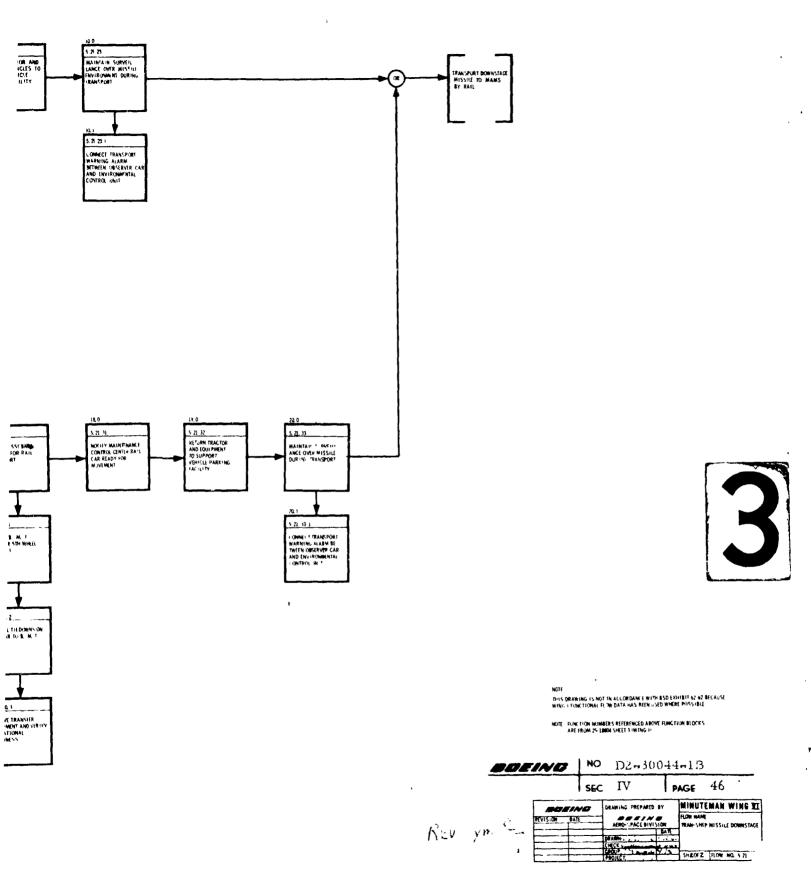
THIS BRAWING IS NOT IN ACCORDANCE WITH BSD EXHIBIT 62-92 BECAUSE WING I FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.

PUNCTION NUMBERS REFERENCED ABOVE PUNCTION DISCUS ARE FROM 25-14894 SHEET 2 WING IS



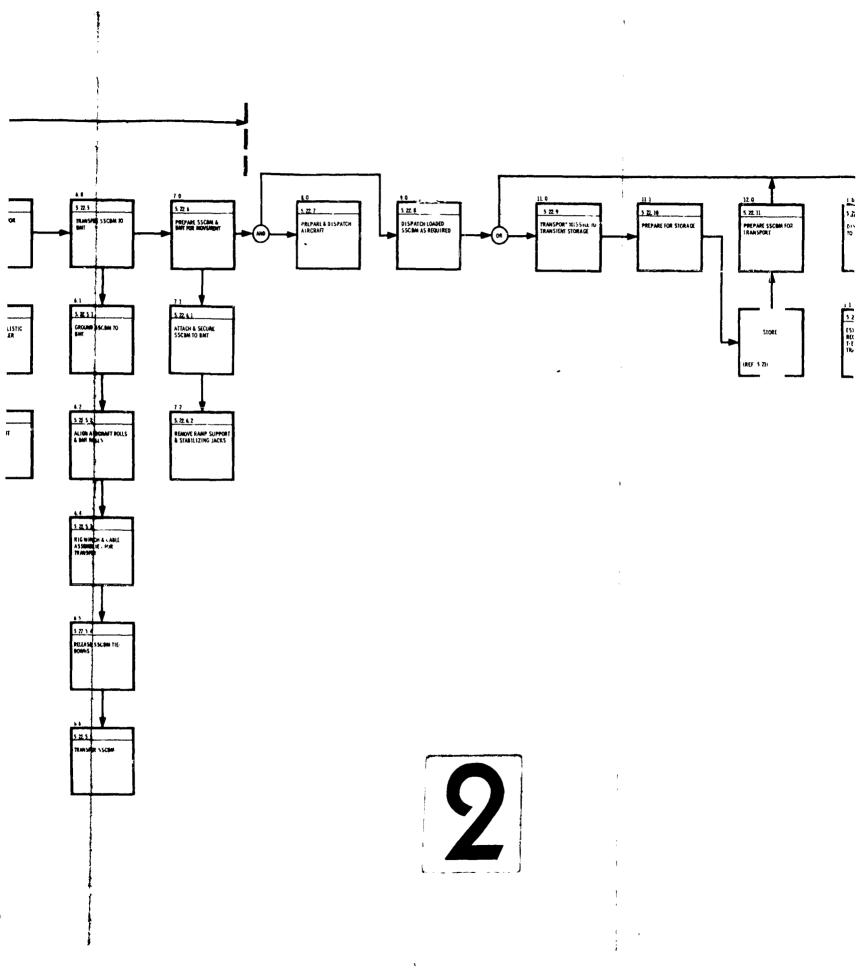


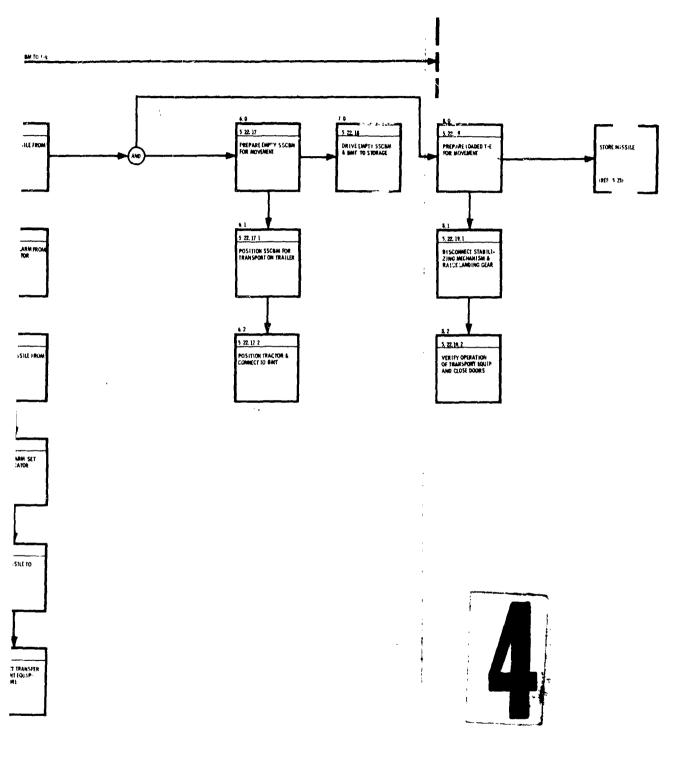




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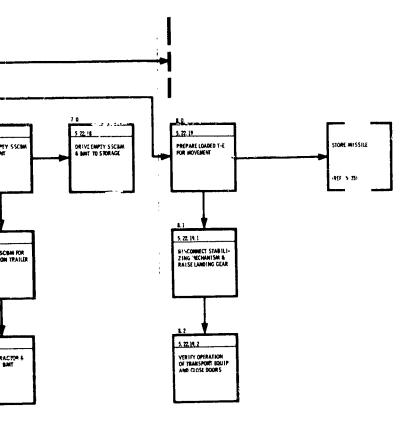


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MINUTEMA PLOW NAME RECEIVE MESSIL PROM MANS DRAWING PREPARED BY *DOSMUS* ALTION MALE

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THIS BRAWING IS NOT IN ACCORDANCE WITH BSD EXHIBIT 62-62 NCAUSE WING I FUNCTIONAL FLOW BATA HAS BEEN USED WHERE POSSIBLE.

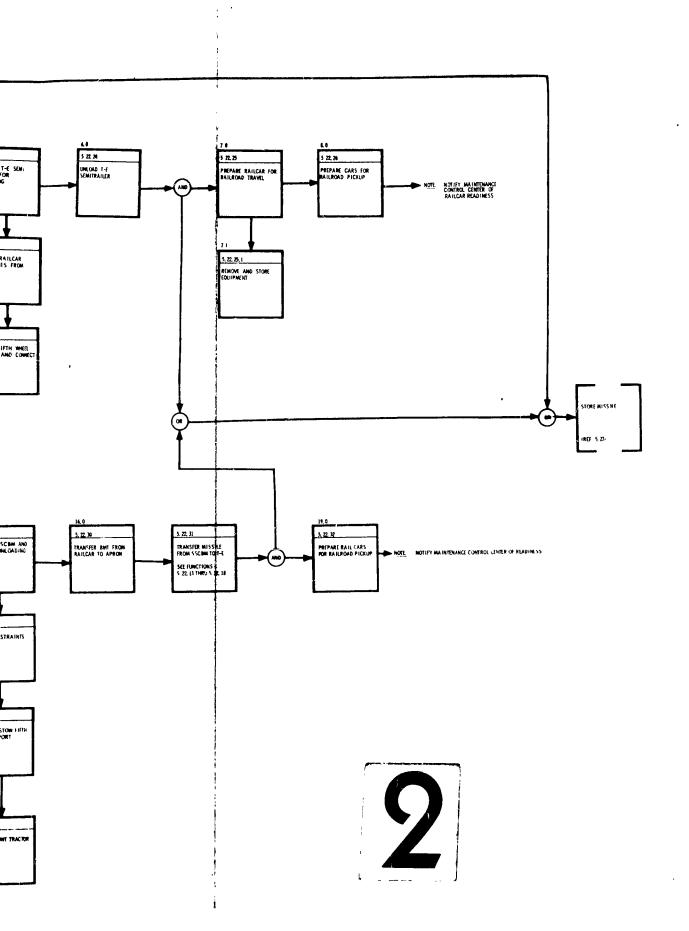
- FUNCTION NUMBERS ABOVE FUNCTION BOXES 5 22.1.1 THRU 5.22.11
 ARE FROM DNC: 25 IBBM 55H 4 PRINCE 1

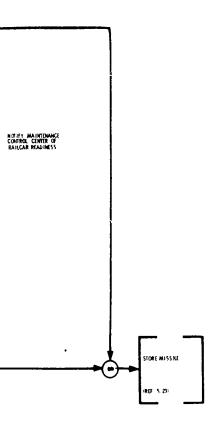
 FUNCTION NUMBERS ABOVE FUNCTION BOXES 5 22.12 THRU 5.22.20
 ARE FROM DNC: 25-2289 (NIMO II)

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THIS DRAWING IS NOT IN ACCORDANCE WITH BSD EXHIBIT 62-62 BECAUSE WING I PUNCTIONAL FLOW BATA MAS BEEN USED WHERE POSSIBLE.

FUNCTION NUMBERS ABOVE FUNCTION BOXES ARE FROM DRAWING 25-18881 SHE'S DIVING IT

